We

ELEKTRONİK



'brighten up together'

ÜRÜN KATALOĞU PRODUCT GUIDE

www.weelektronik.com

Merhaba!

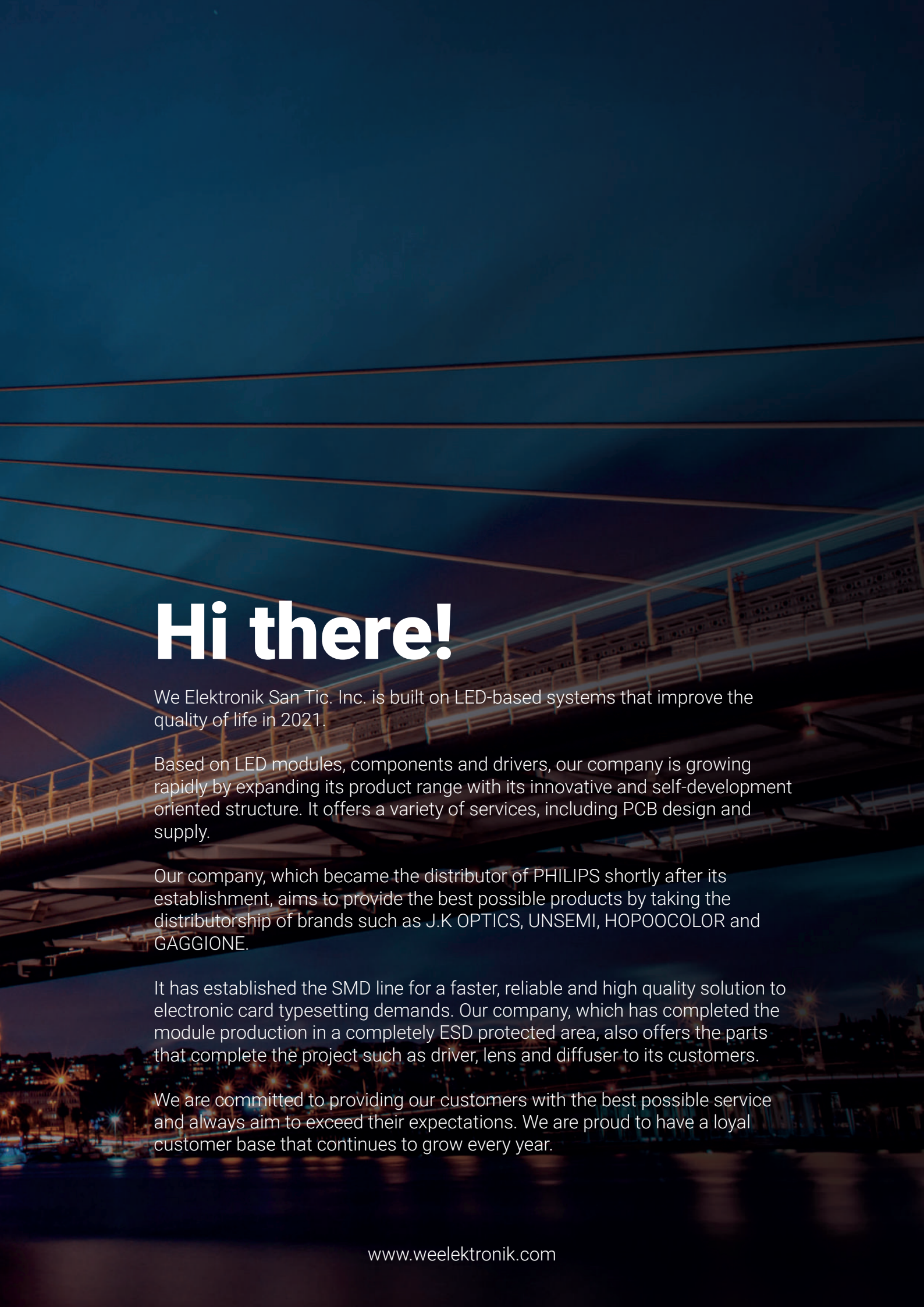
We Elektronik San Tic. A.Ş. , 2021 yılında yaşam kalitesini iyileştiren LED tabanlı sistemler üzerine kurulmuştur.

LED modülleri, bileşenleri ve sürücüleri temel alan şirketimiz yenilikçi ve kendini geliştirme odaklı yapısıyla ürün yelpazesini genişleterek hızla büyümektedir. PCB tasarım ve tedariği dahil olmak üzere çeşitli hizmetler sunmaktadır.

Kuruluşundan kısa bir süre sonra PHILIPS distribütörlüğünü alan firmamız J.K OPTICS, UNSEMI, HOPOOCOLOR ve GAGGIONE gibi markaların distribütörlüğünü de alarak mümkün olan en iyi ürünleri sağlamayı hedeflemektedir.

Elektronik kart dizgi taleplerine daha hızlı, güvenilir ve kaliteli bir çözüm için SMD hattını kurmuştur. Tamamen ESD korumalı bir alanda, modül üretimini tamamlayan firmamız driver, lens ve difüzör gibi projeyi tamamlayan parçaları da müşterilerine sunmaktadır.

Müşterilerimize mümkün olan en iyi hizmeti vermeyi taahhüt ediyoruz ve her zaman beklentilerini aşmayı hedefliyoruz. Her yıl büyümeye devam eden sadık bir müşteri tabanına sahip olmaktan gurur duyuyoruz.



Hi there!

We Elektronik San Tic. Inc. is built on LED-based systems that improve the quality of life in 2021.

Based on LED modules, components and drivers, our company is growing rapidly by expanding its product range with its innovative and self-development oriented structure. It offers a variety of services, including PCB design and supply.

Our company, which became the distributor of PHILIPS shortly after its establishment, aims to provide the best possible products by taking the distributorship of brands such as J.K OPTICS, UNSEMI, HOPOOCOLOR and GAGGIONE.

It has established the SMD line for a faster, reliable and high quality solution to electronic card typesetting demands. Our company, which has completed the module production in a completely ESD protected area, also offers the parts that complete the project such as driver, lens and diffuser to its customers.

We are committed to providing our customers with the best possible service and always aim to exceed their expectations. We are proud to have a loyal customer base that continues to grow every year.

Neden WE?

WE Elektronik temiz, yüksek verimli ve uzun ömürlü aydınlatma çözümleri sunar.

Başarınızın, ürünlerinizin kalitesine ve verimliliğine bağlı olduğunu anlıyoruz ve bu başarıya ulaşmak için misyonumuz size en kaliteli ürünleri rekabetçi fiyatlarla sunmak ve aynı zamanda mümkün olan en iyi müşteri hizmetini sağlamaktır.

Why to choose WE?

WE Elektronic offers clean, highly efficient and long-lasting lighting solutions.

We understand that your success depends on the quality and efficiency of your products, and to achieve this our mission is to provide you with the highest quality products at competitive prices while providing the best possible customer service.

Yetkili Satıcı ve Çözüm Ortaklığı yaptığımız markalar

Authorized Dealer and Brands we are Solution Partners with

Signify PHILIPS | SAMSUNG | CREE

GAGGIONE | 健坤光学 JIANKUN OPTICS | PILA

KORNEA

優恩半導體 USEMI | 虹谱光色 HOPOOCOLOR | FUCON | KLS electronic

Günışığı Kapasitesi

Gün ışığı kapasitesinde aydınlatma yetkinliği

Daylight Capacity

Lighting competence in daylight capacity

Düşük Enerji Tüketimi

Düşük enerji tüketimi sağlayan teknoloji

Low Energy Consumption

Low energy consumption products with its technology

Uygun Maliyet

Yatırım maliyeti düşük verimli çözümler

Cost Effective

Efficient solutions with low investment cost

Verimlilik

Geleneksel aydınlatmaya göre verimli ürünler

Efficiency

More efficient lighting than traditional lighting

Doğa Dostu İmalat

Sürdürülebilir imalat ekseninde üretim süreçleri

Eco-Friendly Manufacturing

Production processes with sustainable manufacturing

Çevre Duyarlılığı

Geri dönüştürülebilir malzemeler ile üretim

Environmental Awerness

Production with recyclable materials

Index

CertaDrive G3 Family 08 - 11

CertaDrive LPF Series


09

CertaDrive Compact Series


11

Certa Round Low PF Series 12 - 13


13

CertaDrive Mini Family 14 - 15


15

CertaDrive LED Transformers 16 - 17


17

Linear HV Non-Isolated Drivers 18 - 19


19

XITANIUM Linear Drivers 20 - 21

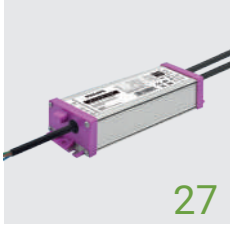

20

DALI Drivers 22 - 25


23


24

Outdoor Drivers 26 - 29


27


29

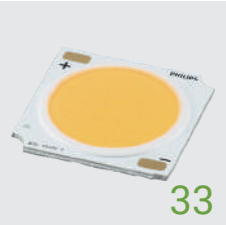
LED Panel Drivers 30 - 31


31

Index

Fortimo COB LEDs 32 - 33

Philips Fortimo COB


33

Samsung LEDs 34 - 39

2835


35

3030


35

5630


36

3535


37

5050


38

COB


39

Cree LEDs 40 - 41

2835


41

3030


41

5050


41

5630


41

2016


41

3535


41

Fucon Connectors 42 - 43


43

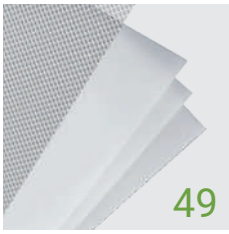
KLS Connectors 44 - 45


44

Semiconductors 46 - 47


46

Diffusers 48 - 49


49

Collimators & Lenses 50 - 53


51

Avika
Street Lighting Lenses


52

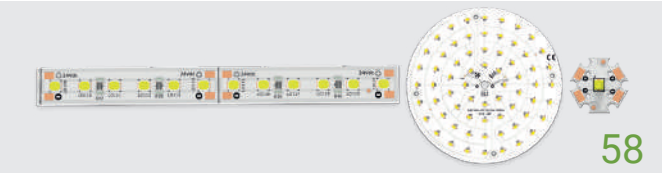
Kornea
Street Lighting Lenses


53

Light Measurment Equipments 54 - 57


54

LED Modules 58 - 81


58

We ELEKTRONİK

PHILIPS



CertaDrive G3 Family

Genel Özellikler Main Features

Uygun fiyatlı ve güvenilir CertaDrive G3 LED Sürücüler

Philips güvenilirliği sunan uygun fiyatlı LED Sürücü serisi. CertaDrive serisi, herhangi bir LED üreticisinin COB ve orta güçlü LED'leriyle uyumludur.

Avantajlar
- Philips deneyimine ve aydınlatma bilgisine dayalı tasarım
- Farklı uygulamalar için çeşitli güç seçenekleri
- Stand-alone kurulumlar için stand-alone gövde tasarımı
- Uygun fiyatlı LED Sürücüler

Özellikler
- G1/G2 tarafından kanıtlanmış yüksek güvenilirlik tasarımı
- Farklı armatürlere uygun harika EMI performansı
- %8'den az düşük dalgalanma akımı
- 30.000 saat kullanım ömrü

Uygulamalar
- Kamu binaları (havaalanları, sinemalar, tiyatrolar, sergi salonları)
- Perakende (süpermarketler, mağazalar)
- Ofisler

Affordable and reliable CertaDrive G3 LED Drivers

Affordable LED Driver range offering Philips reliability. The CertaDrive range is compatible with COB and mid-power LEDs from any LED manufacturer.

Benefits
- *Design based on Philips experience and knowledge of lighting*
- *Various power wattage drivers for different applications*
- *Independent housing design for stand-alone installations*
- *Affordable LED Drivers with premium brand*

Features
- *High reliability design proved by G1/G2*
- *Great EMI performance suitable for different luminaire*
- *Low ripple current less than 8%*
- *30.000 hours lifetime*

Application
- *Public buildings (airports, cinemas, theaters, exhibition halls)*
- *Retail (supermarkets, shops)*
- *Office*

CertaDrive LPF Series

CertaDrive 4W 0.1A 40V LPF I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 78080
Output Power (W)	3W - 4W
Output Current (mA)	100mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %80
Output current ripple	≤ %5 (LF)
Dimensions (LxWxH)	88mm x 39mm x 22mm
IP Class	IP20
Driver Lifetime	30.000 Hours
Pieces Per Box	60pcs

CertaDrive 6W 0.15A 40V LPF I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 78180
Output Power (W)	4,5W - 6W
Output Current (mA)	150mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %84
Output current ripple	≤ %5 (LF)
Dimensions (LxWxH)	88mm x 39mm x 22mm
IP Class	IP20
Driver Lifetime	30.000 Hours
Pieces Per Box	60pcs

CertaDrive 8W 0.2A 40V LPF I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 78280
Output Power (W)	6W - 8W
Output Current (mA)	200mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %85
Output current ripple	≤ %5 (LF)
Dimensions (LxWxH)	88mm x 39mm x 22mm
IP Class	IP20
Driver Lifetime	30.000 Hours
Pieces Per Box	60pcs

CertaDrive 10W 0.25A 40V LPF I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 78380
Output Power (W)	7,5W - 10W
Output Current (mA)	250mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %87
Output current ripple	≤ %5 (LF)
Dimensions (LxWxH)	88mm x 39mm x 22mm
IP Class	IP20
Driver Lifetime	30.000 Hours
Pieces Per Box	60pcs

CertaDrive LPF Series

CertaDrive 12W 0.3A 40V LPF I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 78480
Output Power (W)	9W - 12W
Output Current (mA)	300mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %87
Output current ripple	≤ %5 (LF)
Dimensions (LxWxH)	88mm x 39mm x 22mm
IP Class	IP20
Driver Lifetime	30.000 Hours
Pieces Per Box	60pcs

CertaDrive 14W 0.35A 40V LPF I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 78580
Output Power (W)	9,45W - 15,4W
Output Current (mA)	350mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %87
Output current ripple	≤ %5 - %15 (LF-HF)
Dimensions (LxWxH)	101mm x 41mm x 28mm
IP Class	IP20
Driver Lifetime	30.000 Hours
Pieces Per Box	64pcs

CertaDrive 16W 0.4A 40V LPF I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 78680
Output Power (W)	10,8W - 17,6W
Output Current (mA)	400mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %87
Output current ripple	≤ %5 - %15 (LF-HF)
Dimensions (LxWxH)	101mm x 41mm x 28mm
IP Class	IP20
Driver Lifetime	30.000 Hours
Pieces Per Box	64pcs

CertaDrive 18W 0.45A 40V LPF I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 78780
Output Power (W)	12,15W - 19,8W
Output Current (mA)	450mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %88
Output current ripple	≤ %5 - %15 (LF-HF)
Dimensions (LxWxH)	101mm x 41mm x 28mm
IP Class	IP20
Driver Lifetime	30.000 Hours
Pieces Per Box	64pcs

CertaDrive LPF Series

CertaDrive 20W 0.5A 40V LPF I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 78880
Output Power (W)	13,5W - 22W
Output Current (mA)	500mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %88
Output current ripple	≤ %5 - %15 (LF-HF)
Dimensions (LxWxH)	101mm x 41mm x 28mm
IP Class	IP20
Driver Lifetime	30.000 Hours
Pieces Per Box	64pcs

CertaDrive Compact Series

CertaDrive 11W 0.25A 42V I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929003391880
Output Power (W)	7,5W - 11W
Output Current (mA)	250mA
Output Voltage	30V - 42V
Power Factor	≥ 0.95
Efficiency	≥ %83
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	101mm x 41mm x 28mm
IP Class	IP20
Pieces Per Box	64pcs

CertaDrive Compact Series

CertaDrive 15W 0.35A 42V I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929003392080
Output Power (W)	10W - 15W
Output Current (mA)	350mA
Output Voltage	30V - 42V
Power Factor	≥ 0.97
Efficiency	≥ %85
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	101mm x 41mm x 28mm
IP Class	IP20
Pieces Per Box	64pcs

CertaDrive 21W 0.5A 42V I 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929003392380
Output Power (W)	15W - 21W
Output Current (mA)	500mA
Output Voltage	30V - 42V
Power Factor	≥ 0.96
Efficiency	≥ %85
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	101mm x 41mm x 28mm
IP Class	IP20
Pieces Per Box	64pcs

We
ELEKTRONİK

PHILIPS



Certa Round Low PF Series

Genel Özellikler Main Features

Uygun fiyatlı ve güvenilir LED Sürücüler

Philips güvenilirliği sunan uygun fiyatlı LED Sürücü serisi. CertaDrive serisi, herhangi bir LED üreticisinin COB ve orta güçlü LED'leriyle uyumludur.

Avantajlar
- Philips'in geleneksel floresan ve HID teknolojilerine ilişkin deneyimine ve bilgisine dayalı sürücü tasarımı
- Lümen paketleri/uygulamaları ile ilgili çeşitli güç watt sürücüleri
- Sabit çıkışlı Driverlar

Özellikler
- Yüksek güvenilirlik Kararlı/sabit tutmak için armatür tasarım esnekliği
- Lümen çıkışı ve ışık kalitesi seviyeleri
- Hızlı pazara çıkış süresi
- Profesyonel genel aydınlatma

Uygulamalar
- Kamu binaları (havaalanları, sinemalar, tiyatrolar, sergi salonları)
- Perakende (süpermarketler, mağazalar)
- Ofisler

Affordable and reliable LED Drivers

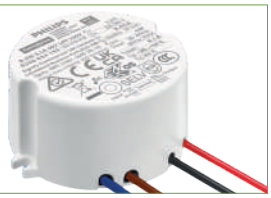
Affordable LED Driver range offering Philips reliability. The CertaDrive range is compatible with COB and mid-power LEDs from any LED manufacturer.

Benefits
- *Driver design based on Philips experience and knowledge of conventional fluorescent and HID technologies*
- *Various power wattage Drivers that are related to the lumen packages/applications*
- *Fixed output Drivers*

Features
- *High reliability*
- *Luminaire design flexibility to keep stable/constant*
- *Lumen output and light quality levels*
- *Fast Time to Market*
- *Professional general lighting LED Drivers*

Application
- *Public buildings (airports, cinemas, theaters, exhibition halls)*
- *Retail (supermarkets, shops)*
- *Office*

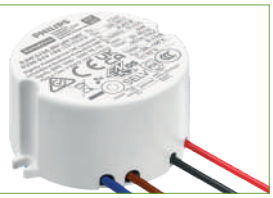
CertaDrive R 4W 0.1A 40V LPF 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 19580
Output Power (W)	3W - 4W
Output Current (mA)	100mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %78
Output current ripple	≤ %3 - %15 (LF-HF)
Dimensions (LxWxH)	47mm x 42mm x 23mm
IP Class	IP20
Driver Lifetime	50.000 Hours
Pieces Per Box	105pcs

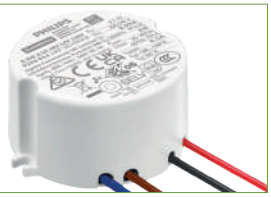
CertaDrive R 6W 0.15A 40V LPF 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 19680
Output Power (W)	4,5W - 6W
Output Current (mA)	150mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %80
Output current ripple	≤ %3 - %15 (LF-HF)
Dimensions (LxWxH)	47mm x 42mm x 23mm
IP Class	IP20
Driver Lifetime	50.000 Hours
Pieces Per Box	105pcs

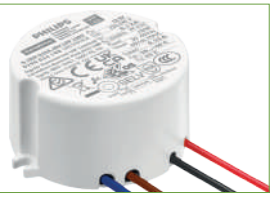
CertaDrive R 8W 0.2A 40V LPF 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 19780
Output Power (W)	6W - 8W
Output Current (mA)	200mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %81
Output current ripple	≤ %3 - %15 (LF-HF)
Dimensions (LxWxH)	47mm x 42mm x 23mm
IP Class	IP20
Driver Lifetime	50.000 Hours
Pieces Per Box	105pcs

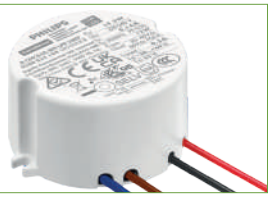
CertaDrive R 10W 0.25A 40V LPF 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 19880
Output Power (W)	7,5W - 10W
Output Current (mA)	250mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %82
Output current ripple	≤ %3 - %15 (LF-HF)
Dimensions (LxWxH)	47mm x 42mm x 23mm
IP Class	IP20
Driver Lifetime	50.000 Hours
Pieces Per Box	105pcs

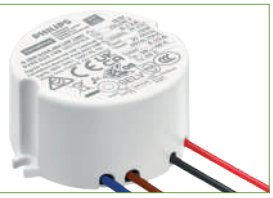
CertaDrive R 12W 0.3A 40V LPF 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 19980
Output Power (W)	9W - 12W
Output Current (mA)	300mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %83
Output current ripple	≤ %3 - %15 (LF-HF)
Dimensions (LxWxH)	47mm x 42mm x 23mm
IP Class	IP20
Driver Lifetime	50.000 Hours
Pieces Per Box	105pcs

CertaDrive R 14W 0.35A 40V LPF 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 20080
Output Power (W)	10,5W - 14W
Output Current (mA)	350mA
Output Voltage	30V - 40V
Power Factor	≥ 0.5
Efficiency	≥ %84
Output current ripple	≤ %3 - %15 (LF-HF)
Dimensions (LxWxH)	47mm x 42mm x 23mm
IP Class	IP20
Driver Lifetime	50.000 Hours
Pieces Per Box	105pcs

We
ELEKTRONİK

PHILIPS



CertaDrive Mini Family

Genel Özellikler Main Features

Uygun fiyatlı ve güvenilir LED Sürücüler

Philips güvenilirliği sunan uygun fiyatlı LED Sürücü serisi. CertaDrive serisi, herhangi bir LED üreticisinin COB ve orta güçlü LED'leriyle uyumludur.

Avantajlar
- Philips'in geleneksel floresan ve HID teknolojilerine ilişkin deneyimine ve bilgisine dayalı sürücü tasarımı
- Lümen paketleri/uygulamaları ile ilgili çeşitli güç watt sürücüleri
- Sabit çıkışlı Driverlar
- Küçük boyut

Özellikler
- Yüksek güvenilirlik Kararlı/sabit tutmak için armatür tasarım esnekliği
- Lümen çıkışı ve ışık kalitesi seviyeleri
- Hızlı pazara çıkış süresi
- Profesyonel genel aydınlatma
- Uygun Fiyatlı LED Sürücüler

Uygulamalar
- Kamu binaları (havaalanları, sinemalar, tiyatrolar, sergi salonları)
- Perakende (süpermarketler, mağazalar)
- Ofisler

Affordable and reliable LED Drivers

Affordable LED Driver range offering Philips reliability. The CertaDrive range is compatible with COB and mid-power LEDs from any LED manufacturer.

Benefits
- *Driver design based on Philips experience and knowledge of conventional fluorescent and HID technologies*
- *Various power wattage Drivers that are related to the lumen packages/applications*
- *Fixed output Drivers*
- *Very small size*

Features
- *High reliability*
- *Luminaire design flexibility to keep stable/constant*
- *Lumen output and light quality levels*
- *Fast Time to Market*
- *Professional general lighting LED Drivers*
- *Affordable LED Drivers*

Application
- *Public buildings (airports, cinemas, theaters, exhibition halls)*
- *Retail (supermarkets, shops)*
- *Office*

CertaDrive 30W/m 0.7A 42V 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929002860780
Output Power (W)	21W - 30W
Output Current (mA)	700mA
Output Voltage	30V - 42V
Power Factor	≥ 0.90
Efficiency	≥ %90
Output current ripple	≤ %15 (HF)
Dimensions (LxWxH)	97,2mm x 43mm x 30mm
IP Class	IP20
Pieces Per Box	40pcs

CertaDrive 34W/m 0.8A 42V 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929002860880
Output Power (W)	24W - 34W
Output Current (mA)	800mA
Output Voltage	30V - 42V
Power Factor	≥ 0.90
Efficiency	≥ %90
Output current ripple	≤ %15 (HF)
Dimensions (LxWxH)	97,2mm x 43mm x 30mm
IP Class	IP20
Pieces Per Box	40pcs

CertaDrive 40W/m 0.9A 44V 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929002860980
Output Power (W)	27W - 40W
Output Current (mA)	900mA
Output Voltage	30V - 44V
Power Factor	≥ 0.90
Efficiency	≥ %88
Output current ripple	≤ %15 (HF)
Dimensions (LxWxH)	97,2mm x 43mm x 30mm
IP Class	IP20
Pieces Per Box	40pcs

CertaDrive 41W/m 1.05A 39V 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929002861080
Output Power (W)	28W - 41W
Output Current (mA)	1050mA
Output Voltage	27V - 39V
Power Factor	≥ 0.90
Efficiency	≥ %90
Output current ripple	≤ %15 (HF)
Dimensions (LxWxH)	97,2mm x 43mm x 30mm
IP Class	IP20
Pieces Per Box	40pcs

We
ELEKTRONİK

PHILIPS



Certadrive LED Transformers

Genel Özellikler Main Features

Philips tam elektronik sabit voltajlı LED Transformatörler, teşhir aydınlatması, perakende teşhir aydınlatması ve lineer aydınlatma gibi genel uygulamalarda kullanılan 24VDC LED çözümlerini çalıştırmak üzere tasarlanmıştır.

Avantajlar
- Kablolama veya LED modül hasar görse bile güvenliği sağlayan SELV çalışma voltajları
- Yüksek verimlilik sayesinde enerji tasarrufu
- Sağlam ve düşük bakım maliyetleri
- Tasarımı ve kurulumu kolay
- Uzun ömür

Özellikler
- İzolasyon Sınıfı I ve II uygulamaları için dahili kullanım
- Global onaylar ve sertifikalar
- Stabil çıkış voltajı
- Geniş ortam sıcaklığı aralığı
- Aşırı güce karşı koruma
- Otomatik yeniden başlatma ile çıkış kısa devre kapatma özelliği

Uygulamalar
- Perakende teşhir aydınlatması, doğrusal vurgulu aydınlatma ve soğutmalı teşhir aydınlatması
- Raf aydınlatması
- Gizli aydınlatma
- Cephe vurgu aydınlatması
- Soğutucular ve dondurucular

Philips full-electronic constant voltage LED Transformers are designed to operate 24VDC LED solutions used in general applications such as refrigerated display lighting, retail display lighting and linear accent lighting.

Benefits
- *SELV operating voltages, ensuring safety even if wiring or LED boards become damaged*
- *Energy savings through high efficiency*
- *Ultimate robustness, lower maintenance costs*
- *Easy to design-in and install*
- *Long lifetime*

Features
- *Built-in use for Insulation Class I and II applications*
- *Global approbations and certifications*
- *Stable output voltage*
- *Wide ambient temperature range*
- *Protection against overpower*
- *Output short-circuit shutdown feature with automatic restart*

Application
- *Retail display lighting, linear accent lighting and refrigerated display lighting*
- *Shelf lighting*
- *Cove lighting*
- *Facade accent lighting*
- *Coolers and freezers*

CertaDrive LED Transformer 30W 24VDC



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929002146280
Output Power (W)	6W - 30W
Output Current (mA)	0,25Adc - 1,25Adc
Output Voltage	22,8Vdc - 25,2Vdc
Power Factor	≥ 0.95
Efficiency	≥ %85
Output current ripple	<%20
Dimensions (LxWxH)	150mm x 40mm x 28mm
IP Class	IP20
Pieces Per Box	50pcs

CertaDrive LED Transformer 60W 24VDC



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929002146380
Output Power (W)	6W - 60W
Output Current (mA)	0,25Adc - 2,5Adc
Output Voltage	22,8Vdc - 25,2Vdc
Power Factor	≥ 0.95
Efficiency	≥ %86,5
Output current ripple	<%20
Dimensions (LxWxH)	211mm x 40mm x 32mm
IP Class	IP20
Pieces Per Box	20pcs

CertaDrive LED Transformer 120W 24VDC



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929002146480
Output Power (W)	6W - 120W
Output Current (mA)	0,25Adc - 5Adc
Output Voltage	22,8Vdc - 25,2Vdc
Power Factor	≥ 0.95
Efficiency	≥ %87,5
Output current ripple	<%20
Dimensions (LxWxH)	280mm x 40mm x 32mm
IP Class	IP20
Pieces Per Box	20pcs

CertaDrive LED Transformer 180W 24VDC



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	929002146580
Output Power (W)	6W - 180W
Output Current (mA)	0,25Adc- 7,5Adc
Output Voltage	22,8Vdc - 25,2Vdc
Power Factor	≥ 0.95
Efficiency	≥ %92,5
Output current ripple	<%20
Dimensions (LxWxH)	300mm x 40mm x 35mm
IP Class	IP20
Pieces Per Box	9pcs

We
ELEKTRONİK

PHILIPS

Linear Drivers



Genel Özellikler Main Features

Avantajlar
- Yüksek ışık kalitesi
- Yüksek güvenilirlik
- Geleceğe dönük esneklik
- Standart gövde boyutları ve mükemmel termal performans sayesinde kolay tasarım
- LEDset ile esnek akım ayarı

Özellikler
- Yüksek verim
- Geniş çalışma pencereleri - çıkış akımı LEDset (direnç) ile ayarlanabilir
- Düşük çıkış dalgalanma akımı

Uygulamalar
- Ofisler
- Sanayi
- Perakende: Süpermarketler, alışveriş merkezleri vb.

Benefits
- *High quality of light*
- *High reliability*
- *Future-proof flexibility*
- *Easy design-in due to standard housing dimensions and excellent thermal performance*
- *Flexible current setting with LEDset*

Features
- *High efficiency*
- *Wide operating windows - output current can be adjusted via LEDset (resistor)*
- *Low output ripple current*

Application
- *Offices*
- *Industry*
- *Retail: supermarkets, shopping malls*

Linear HV Non-Isolated Drivers

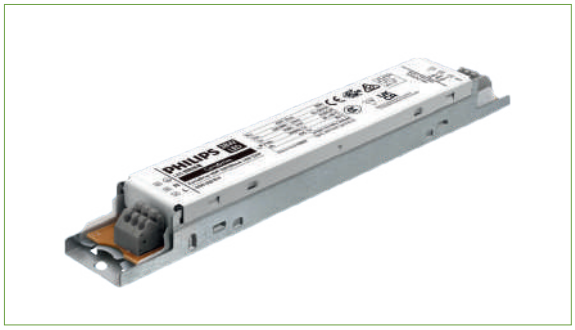
CertaDrive 19W 200/350mA 54V 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 74380
Output Power (W)	7W - 19W
Output Current (mA)	200mA / 350mA
Output Voltage	30V - 54V
Power Factor	0.96
Efficiency	86%
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	210mm x 30mm x 21mm
IP Class	IP20
Pieces Per Box	20pcs

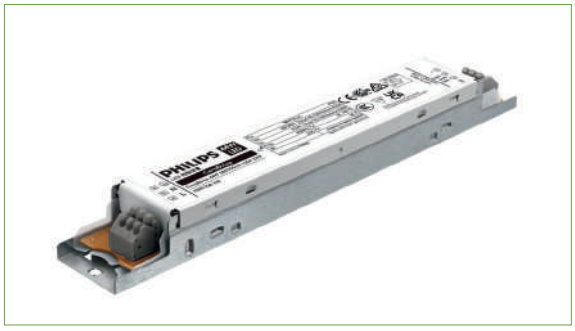
CertaDrive 38W 250/300mA 125V 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 81980
Output Power (W)	17,5W - 38W
Output Current (mA)	250mA / 300mA
Output Voltage	70V - 125V
Power Factor	≥ 0.95
Efficiency	≥ %91
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	210mm x 30mm x 21mm
IP Class	IP20
Pieces Per Box	20pcs

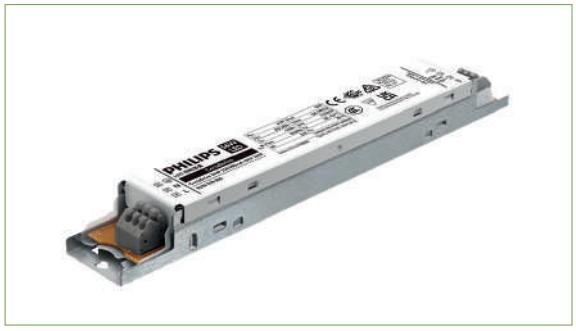
CertaDrive 44W 200/350mA 125V 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 74480
Output Power (W)	15W - 43,75W
Output Current (mA)	200mA / 350mA
Output Voltage	70V - 125V
Power Factor	0.96
Efficiency	92%
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	210mm x 30mm x 21mm
IP Class	IP20
Pieces Per Box	20pcs

CertaDrive 56W 250/300mA 185V 230V

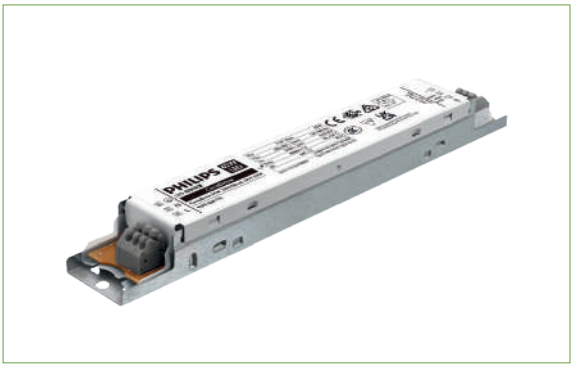


Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 82080
Output Power (W)	30W - 56W
Output Current (mA)	250mA / 300mA
Output Voltage	120V - 185V
Power Factor	≥ 0.96
Efficiency	≥ %92
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	210mm x 30mm x 21mm
IP Class	IP20
Pieces Per Box	20pcs

Linear HV Non-Isolated Drivers

CertaDrive 65W 200/350mA 185V DS 230V

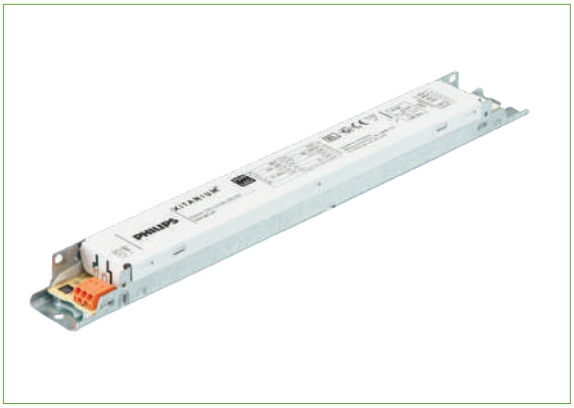


Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 74580
Output Power (W)	24W - 64,75W
Output Current (mA)	200mA / 350mA
Output Voltage	120V - 185V
Power Factor	0.97
Efficiency	≥ %92
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	210mm x 30mm x 21mm
IP Class	IP20
Pieces Per Box	20pcs

XITANIUM Linear Drivers

Xitanium 75W 0.12-0.4A 220V 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 009 50706
Output Power (W)	80W
Output Current (mA)	120mA - 400mA
Control Method	LEDset (Resistor)
Output Voltage	100V - 220V (Check Datasheet)
Power Factor	≥ 0.90
Efficiency	≥ %93,7
Output current ripple	<%4
Dimensions (LxWxH)	280mm x 30mm x 21mm
IP Class	IP20
Pieces Per Box	24pcs

Xitanium 90W 0.25-0.7A 220V 21 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 016 94606
Output Power (W)	25W - 90W
Output Current (mA)	250mA - 700mA
Control Method	LEDset (Resistor)
Output Voltage	50V - 220V (Check Datasheet)
Power Factor	≥ 0.98
Efficiency	≥ %93
Output current ripple	<%4
Dimensions (LxWxH)	280mm x 30mm x 21mm
IP Class	IP20
Pieces Per Box	24pcs

XITANIUM Linear Drivers

Xitanium 150W 0.2-0.7A 300V iXt 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 015 06706
Output Power (W)	43W - 150W
Output Current (mA)	200mA - 700mA
Control Method	LEDset - SimpleSet
Output Voltage	100V - 300V (Check Datasheet)
Power Factor	≥ 0.9
Efficiency	≥ %95,1
Output current ripple	<%4
Dimensions (LxWxH)	360mm x 30mm x 21mm
IP Class	IP20
Pieces Per Box	24pcs



We
ELEKTRONİK

PHILIPS

DALI Drivers



Genel Özellikler Main Features

Armatürlerinizde Xitanium LED sürücüleri kullanarak, görsel titreme ve stroboskopik efektler olmadan yüksek kalitede ışık elde edeceğinizden emin olabilirsiniz. Sürücülerimizin güvenilirliği, derinlemesine elektronik bilgisine ve kapsamlı testlere dayanmaktadır.

Avantajlar
- Yüksek ışık kalitesi
- Yüksek güvenilirlik
- Geleceğe dönük esneklik
- Genlik modülasyonu karartması (AM) sayesinde titreşimsiz ve gürültüsüz dimleme

Özellikler
- DALI arabirimi veya LEDset ile yapılandırılabilir çalıştırma pencereleri (AOC)
- Ayarlanabilir Işık Çıkışı (ALO)
- Sabit Işık Çıkışı (CLO)
- Koridor Modu (CM)
- DC çalışması sırasında desteklenen dimleme (DCemDim)
  Touch DIM (TD)

Uygulamalar
- Ofisler
- Sanayi
- Perakende: Süpermarketler, alışveriş merkezleri vb.

By using Xitanium LED drivers in your luminaires, you can be sure to offer your customers high quality of light without visual flicker and stroboscopic effects. The reliability of our drivers is based on in-depth electronics knowledge and extensive testing.

Benefits
- *High quality of light*
- *High reliability*
- *Future-proof flexibility*
- *Flicker and noise free dimming due to amplitude modulation dimming (AM)*

Features
- *Configurable operating windows (AOC) via DALI interface or with LEDset*
- *Adjustable Light Output (ALO)*
- *Constant Light Output (CLO)*
- *Corridor Mode (CM)*
- *Dimming supported during DC operation (DCemDim)*
- *Touch & Dim (TD)*

Application
- *Offices*
- *Industry*
- *Retail: supermarkets, shopping malls*

Xitanium DALI SELV LED Drivers

Xitanium 20W R 0.15-0.5A 54V TD/I



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 01106
Output Power (W)	6,5W - 20W
Output Current (mA)	150mA - 500mA
Output Voltage	20V - 54V (Check Datasheet)
Control Method	DALI, Touch & Dim (TD)
Dimming range	%5 - %100
Power Factor	≥ 0.9
Efficiency	≥ %88
Output current ripple	<%4
Dimensions (LxWxH)	127,6mm x 74mm x 30mm
IP Class	IP20
Pieces Per Box	18pcs

Xitanium 40W R 0.3-1.05A 54V TD/I



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 01206
Output Power (W)	13W - 40W
Output Current (mA)	300mA - 1050mA
Output Voltage	20V - 54V(Check Datasheet)
Control Method	DALI, Touch & Dim (TD)
Dimming range	%5 - %100
Power Factor	≥ 0.9
Efficiency	≥ %89
Output current ripple	<%4
Dimensions (LxWxH)	127,6mm x 74mm x 30mm
IP Class	IP20
Pieces Per Box	18pcs

Xitanium Non-Iso DALI Dimmable & Programmable (TD21 LEDset)

Xitanium 35W 0.08-0.35A 220V TD21 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 016 81706
Output Power (W)	10W - 35W
Output Current (mA)	80mA - 350mA
Output Voltage	50V - 220V (Check Datasheet)
Control Method	Corridor Mode, DALI, TouchDIM
Dimming range	%1 - %100
Power Factor	≥ 0.9
Efficiency	≥ %91,4
Output current ripple	<%4
Dimensions (LxWxH)	280mm x 30mm x 21mm
IP Class	IP20
Pieces Per Box	24pcs

Xitanium 60W 0.15-0.5A 220V TD21 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 016 81906
Output Power (W)	17W - 60W
Output Current (mA)	150mA - 500mA
Output Voltage	20V - 54V(Check Datasheet)
Control Method	Corridor Mode, DALI, TouchDIM
Dimming range	%1 - %100
Power Factor	≥ 0.9
Efficiency	≥ %93
Output current ripple	<%4
Dimensions (LxWxH)	280mm x 30mm x 21mm
IP Class	IP20
Pieces Per Box	24pcs

Xitanium Mini Dali DS Drivers

Xi 15W/m 0.2-0.35A 42V DS S TD 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 24980
Output Power (W)	7,2W - 14,7W
Output Current (mA)	0.2 / 0.25 / 0.3 / 0.35 A
Output Voltage	30V - 42V
Control Method	Corridor Mode, DALI, Touch & Dim
Dimming range	%1 - %100
Power Factor	≥ 0.93
Efficiency	≥ %85
Output current ripple	<%4
Dimensions (LxWxH)	97,2mm x 43,2mm x 30mm
IP Class	IP20
Pieces Per Box	40pcs

Xi 25W/m 0.45-0.6A 42V DS S TD 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 25080
Output Power (W)	14,85W - 25,2W
Output Current (mA)	0.45 / 0.5 / 0.55 / 0.6 A
Output Voltage	30V - 42V
Control Method	Corridor Mode, DALI, Touch & Dim
Dimming range	%1 - %100
Power Factor	≥ 0.96
Efficiency	≥ %87
Output current ripple	<%4
Dimensions (LxWxH)	97,2mm x 43,2mm x 30mm
IP Class	IP20
Pieces Per Box	40pcs

Xi 36W/m 0.7-0.85A 42V DS S TD 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 25180
Output Power (W)	21W - 35,7W
Output Current (mA)	0.7 / 0.75 / 0.8 / 0.85 A
Output Voltage	30V - 42V
Control Method	Corridore Mode, DALI, Touch & Dim
Dimming range	%1 - %100
Power Factor	≥ 0.96
Efficiency	≥ %88
Output current ripple	<%4
Dimensions (LxWxH)	97,2mm x 43,2mm x 30mm
IP Class	IP20
Pieces Per Box	40pcs

Xi 40W/m 0.9-1.05A 42V DS S TD 230V



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 25280
Output Power (W)	27W - 40W
Output Current (mA)	0.9 / 0.95 / 1 / 1.05 A
Output Voltage	30V - 42V
Control Method	Corridore Mode, DALI, Touch & Dim
Dimming range	%1 - %100
Power Factor	≥ 0.96
Efficiency	≥ %88
Output current ripple	<%4
Dimensions (LxWxH)	97,2mm x 43,2mm x 30mm
IP Class	IP20
Pieces Per Box	40pcs



We
ELEKTRONİK

PHILIPS



Outdoor Drivers

Genel Özellikler Main Features

Philips Xitanium Lite Programlanabilir LED sürücüleri, özenle seçilmiş bir dizi özellik ve üst düzey performans sunmak için tasarlandı ve bu da onu birçok dış mekan uygulaması için tercih edilen bir seçenek haline getiriyor. Portföy, özelleştirilebilir bir işletim penceresiyle yüksek esneklik sunarak, sistem ayarı yoluyla LED aydınlatma tasarımlarında farklılaşmaya ve LED etkinlik yükseltmelerine hazır olmaya olanak tanır.

Avantajlar
- Daha düşük bakım maliyetleri sunan üstün sağlamlık
- Uzun ömür
- Yüksek verimlilik sayesinde enerji tasarrufu

Özellikler
- SimpleSet®, kablosuz yapılandırma arabirimi
- Yüksek dalgalanma koruması
- Uzun kullanım ömrü ve neme, titreşime ve sıcaklığa karşı sağlam koruma
- Yapılandırılabilir işletim pencereleri (AOC)

Uygulamalar
- Yerleşim bölgesi aydınlatması
- Yol ve sokak aydınlatması
- Alan ve cephe aydınlatması
- Tünel aydınlatması
- Yüksek tavan aydınlatması

Philips Xitanium Lite Programmable LED drivers are value engineered to deliver a carefully selected feature set and high-end performance, making it a preferred choice for many outdoor applications. The portfolio offers high flexibility with a customizable operating window, enabling differentiation in LED lighting designs via system tuning and being prepared for LED efficacy upgrades.

Benefits
- *Ultimate robustness, offering peace of mind and lower maintenance costs*
- *Long lifetime and high survival rate*
- *Energy savings through high efficiency*

Features
- *SimpleSet®, wireless configuration interface*
- *High surge protection*
- *Long lifetime and robust protection against moisture, vibration and temperature*
- *Configurable operating windows(AOC)*

Application
- *Residential areas*
- *Road and street lighting*
- *Area and flood lighting*
- *Tunnel lighting*
- *High-bay lighting*

Xi LP 100W 0.3-1.05A S1 WL I155



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 78980
Output Power (W)	3,3W - 100W
Output Current (mA)	300mA - 1050mA (700mA)
Output Voltage	46V - 143V (Check Datasheet)
THD	%10
Power Factor	0.95
Efficiency	90%
Control Method	1-10V
Dimming range	%10 - %100
Programmable features	AOC, ALO, CLO, Dynadimmer
Surge immunity	6kV - 10kV
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	155mm x 68mm x 40mm
IP Class	IP67
Pieces Per Box	12pcs
Approval marks	CB/CCC/CE/ENEC/UKCA

Xi LP 100W 0.5-1.5A S1 WL I155



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 79280
Output Power (W)	3,3W - 100W
Output Current (mA)	500mA - 1500mA (1050mA)
Output Voltage	33V - 95V (Check Datasheet)
THD	%10
Power Factor	0.95
Efficiency	90%
Control Method	1-10V
Dimming range	%10 - %100
Programmable features	AOC, ALO, CLO, Dynadimmer
Surge immunity	6kV - 10kV
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	155mm x 68mm x 40mm
IP Class	IP67
Pieces Per Box	12pcs
Approval marks	CB/CCC/CE/ENEC/UKCA

Xi LP 150W 0.3-1.05A S1 WL I175



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 79080
Output Power (W)	5W - 150W
Output Current (mA)	300mA - 1050mA (700mA)
Output Voltage	71V - 214V (Check Datasheet)
THD	%10
Power Factor	0.95
Efficiency	91%
Control Method	1-10V
Dimming range	%10 - %100
Programmable features	AOC, ALO, CLO, Dynadimmer
Surge immunity	6kV - 10kV
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	175mm x 68mm x 40mm
IP Class	IP67
Pieces Per Box	12pcs
Approval marks	CB/CCC/CE/ENEC/UKCA

Xi LP 150W 0.5-1.5A S1 WL I175



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 79380
Output Power (W)	5W - 150W
Output Current (mA)	500mA - 1500mA (1050mA)
Output Voltage	50V - 143V(Check Datasheet)
THD	%10
Power Factor	0.95
Efficiency	91%
Control Method	1-10V
Dimming range	%10 - %100
Programmable features	AOC, ALO, CLO, Dynadimmer
Surge immunity	6kV - 10kV
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	175mm x 68mm x 40mm
IP Class	IP67
Pieces Per Box	12pcs
Approval marks	CB/CCC/CE/ENEC/UKCA

Xi LP 200W 0.3-1.05A S1 WL I195



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 79180
Output Power (W)	10W - 200W
Output Current (mA)	300mA - 1050mA (700mA)
Output Voltage	142V - 286V(Check Datasheet)
THD	%10
Power Factor	0.95
Efficiency	92%
Control Method	1-10V
Dimming range	%10 - %100
Programmable features	AOC, ALO, CLO, Dynadimmer
Surge immunity	6kV - 10kV
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	195mm x 68mm x 40mm
IP Class	IP67
Pieces Per Box	12pcs
Approval marks	CB/CCC/CE/ENEC/UKCA

Xi LP 200W 0.5-1.5A S1 WL I195



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 79480
Output Power (W)	10W - 200W
Output Current (mA)	500mA - 1500mA (1050mA)
Output Voltage	100V - 200V(Check Datasheet)
THD	%10
Power Factor	0.95
Efficiency	92%
Control Method	1-10V
Dimming range	%10 - %100
Programmable features	AOC, ALO, CLO, Dynadimmer
Surge immunity	6kV - 10kV
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	195mm x 68mm x 40mm
IP Class	IP67
Pieces Per Box	12pcs
Approval marks	CB/CCC/CE/ENEC/UKCA

Xi LP 250W 0.3-1.05A S1 WL I215



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 033 89180
Output Power (W)	11,6W - 250W
Output Current (mA)	300mA - 1050mA (700mA)
Output Voltage	165V - 357V(Check Datasheet)
THD	%10
Power Factor	0.95
Efficiency	93%
Control Method	1-10V
Dimming range	%10 - %100
Programmable features	AOC, ALO, CLO, Dynadimmer
Surge immunity	6kV - 10kV
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	215mm x 68mm x 40mm
IP Class	IP67
Pieces Per Box	12pcs
Approval marks	CB/CCC/CE/ENEC/UKCA

Xi LP 250W 0.5-1.5A S1 WL I215



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 033 89280
Output Power (W)	11,6W - 250W
Output Current (mA)	500mA - 1500mA (1050mA)
Output Voltage	110V - 238V(Check Datasheet)
THD	%10
Power Factor	0.95
Efficiency	93%
Control Method	1-10V
Dimming range	%10 - %100
Programmable features	AOC, ALO, CLO, Dynadimmer
Surge immunity	6kV - 10kV
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	215mm x 68mm x 40mm
IP Class	IP67
Pieces Per Box	12pcs
Approval marks	CB/CCC/CE/ENEC/UKCA

Xi LP 320W 0.7-2.1A S1 WL AUX I230



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 028 82780
Output Power (W)	16W - 320W
Output Current (mA)	700mA - 2100mA (1400mA)
Output Voltage	114V - 228V(Check Datasheet)
THD	%10
Power Factor	0.95
Efficiency	92.5%
Control Method	1-10V, Dynadimmer
Dimming range	%10 - %100
Programmable features	AOC, ALO, CLO, Dynadimmer
Surge immunity	6kV - 10kV
Output current ripple	≤ %4 - %4 (L-H)
Dimensions (LxWxH)	230mm x 90mm x 40mm
IP Class	IP67
Pieces Per Box	6pcs
Approval marks	CB/CCC/CE/ENEC/UKCA



We ELEKTRONİK

PILA

LED Panel Drivers



With the assurance of PHILIPS güvencesiyle

Genel Özellikler Main Features

Temel aydınlatma uygulamaları için tek akım LED sürücüleri.

Avantajlar
- Yüksek adetli uygulamalar için çeşitli V_{out} / I_{out} varyasyonları
- Gözler için konfor ve kamera dostu performans güvencesi
- Tek çıkış akımı ile kolay tasarım
- Bağımsız kurulumlar için bağımsız versiyon gövde tasarımı

Özellikler
- 50.000 saat kullanım ömrü @Tc-life
- Daha basit onay süreci ve kolay tasarım için SELV çıktısı
- Düşük dalgalanma çıkış akımı (%4)

Uygulamalar
- Ofis ve ortak alanlar için LED panel uygulamaları
- Koruma sınıfı II olan armatürler için

Single current LED drivers for essential lighting applications.

Benefits
- *Various V_{out} / I_{out} mix for high volume applications*
- *Comfort for eyes and assurance of camera-friendly performance*
- *Easy to design-in with single output current*
- *Independent-version housing design for stand-alone installations*

Features
- *50.000 hours lifetime @Tc-life*
- *SELV output for simpler approval process and easy design-in*
- *Low ripple output current (4%)*

Application
- *Panel application for office and public areas*
- *For luminaires of protection class II*

20W 0.5A 40V 230V I



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 52080
Output Power (W)	15W - 20W
Output Current (mA)	500mA
Output Voltage	30V - 40V
THD	%20
Power Factor	0.95
Efficiency	87%
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	118mm x 42mm x 28mm
IP Class	IP20
Pieces Per Box	105pcs

28W 0.7A 40V 230V I



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 52180
Output Power (W)	21W - 28W
Output Current (mA)	700mA
Output Voltage	30V - 40V
THD	%20
Power Factor	0.97
Efficiency	87%
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	118mm x 42mm x 28mm
IP Class	IP20
Pieces Per Box	105pcs

36W 0.9A 40V 230V I



Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 52280
Output Power (W)	27W - 36W
Output Current (mA)	900mA
Output Voltage	30V - 40V
THD	%20
Power Factor	0.98
Efficiency	89%
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	118mm x 42mm x 28mm
IP Class	IP20
Pieces Per Box	105pcs

42W 1.05A 40V 230V I



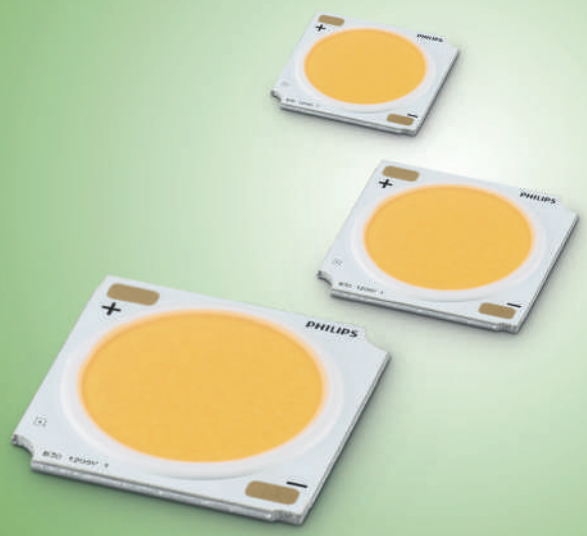
Teknik Özellikler Technical Specifications

Logistic Code (12NC)	9290 034 52380
Output Power (W)	31,5W - 42W
Output Current (mA)	1050mA
Output Voltage	30V - 40V
THD	%20
Power Factor	0.98
Efficiency	89%
Output current ripple	≤ %4 - %15 (L-H)
Dimensions (LxWxH)	118mm x 42mm x 28mm
IP Class	IP20
Pieces Per Box	105pcs

ELEKTRONİK

PHILIPS

COB LEDs



Genel Özellikler Main Features

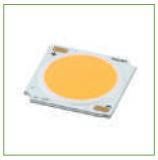
Downlight ve Spot Işık uygulamaları için mükemmel değerler.

Fortimo SLM VO gen1, kullanım ömründen ödün vermeden tavan ışıklarında ve spot ışıklarda erişilebilir iyi bir performans sağlamayı amaçlayan bir dizi LED modülüdür. İyi bir Lm/W performansı sunar ve CRI80 veya CRI90'da geniş bir CCT seçeneği mevcuttur. Fortimo SLM VO gen1, boyutları sayesinde piyasada bulunan çok çeşitli tutucu ve reflektörlerle kolayca kullanılabilir.

Excellent values for Downlight and Spot lighting applications.

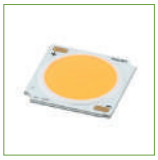
The Fortimo SLM VO gen1 is a range of LED modules which aims at making a good performance accessible in downlights and spot lights without sacrificing lifetime. It offers a good Lm/W performance and there's a wide choice of CCT's available in CRI80 or CRI90. Due to it's dimensions, the Fortimo SLM VO gen1 can easily be used with a wide range of holders and reflectors which are available in the market.

Fortimo SLM VO 827 1206 LES15 G1



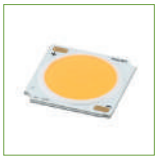
Logistic Code (12NC)	929002134006
Forward voltage (Typ)	34.4V
Forward Current (Max)	1200mA
Luminous Flux (Nom)	2377 lm
Luminous Efficacy (Nom)	141 lm/W
CCT (Nom)	2700K
CRI (Nom)	80
CoB size	19x19mm
Quantity Per Pack	45pcs
Packs Per Outer Box	225pcs
Approval Marks	CE / ENEC / UL

Fortimo SLM VO 830 1206 LES15 G1



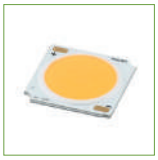
Logistic Code (12NC)	929002134106
Forward voltage (Typ)	34.4V
Forward Current (Max)	1200mA
Luminous Flux (Nom)	2491 lm
Luminous Efficacy (Nom)	148 lm/W
CCT (Nom)	3000K
CRI (Nom)	80
CoB size	19x19mm
Quantity Per Pack	45pcs
Packs Per Outer Box	225pcs
Approval Marks	CE / ENEC / UL

Fortimo SLM VO 840 1206 LES15 G1



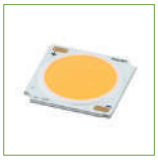
Logistic Code (12NC)	929002134306
Forward voltage (Typ)	34.4V
Forward Current (Max)	1200mA
Luminous Flux (Nom)	2555 lm
Luminous Efficacy (Nom)	156 lm/W
CCT (Nom)	4000K
CRI (Nom)	80
CoB size	19x19mm
Quantity Per Pack	45pcs
Packs Per Outer Box	225pcs
Approval Marks	CE / ENEC / UL

Fortimo SLM VO 930 1206 LES15 G1



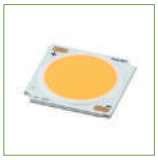
Logistic Code (12NC)	929002134606
Forward voltage (Typ)	34.4V
Forward Current (Max)	1200mA
Luminous Flux (Nom)	2129 lm
Luminous Efficacy (Nom)	126 lm/W
CCT (Nom)	3000K
CRI (Nom)	90
CoB size	19x19mm
Quantity Per Pack	45pcs
Packs Per Outer Box	225pcs
Approval Marks	CE / ENEC / UL

Fortimo SLM VO 935 1206 LES15 G1



Logistic Code (12NC)	929002134706
Forward voltage (Typ)	34.4V
Forward Current (Max)	1200mA
Luminous Flux (Nom)	2201 lm
Luminous Efficacy (Nom)	131 lm/W
CCT (Nom)	3500K
CRI (Nom)	90
CoB size	19x19mm
Quantity Per Pack	45pcs
Packs Per Outer Box	225pcs
Approval Marks	CE / ENEC / UL

Fortimo SLM VO 940 1206 LES15 G1

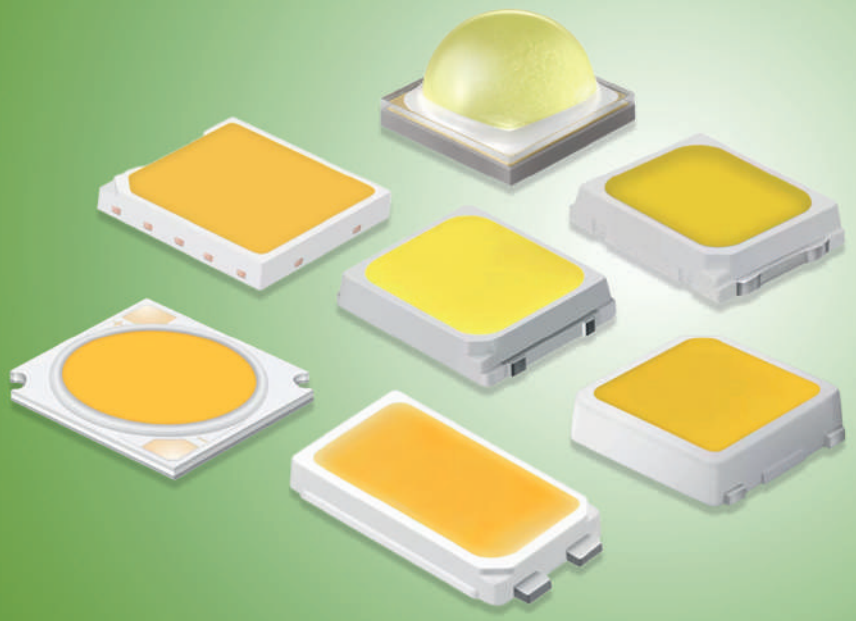


Logistic Code (12NC)	929002134806
Forward voltage (Typ)	34.4V
Forward Current (Max)	1200mA
Luminous Flux (Nom)	2265 lm
Luminous Efficacy (Nom)	135 lm/W
CCT (Nom)	4000K
CRI (Nom)	90
CoB size	19x19mm
Quantity Per Pack	45pcs
Packs Per Outer Box	225pcs
Approval Marks	CE / ENEC / UL

ELEKTRONİK

SAMSUNG

LEDs



Genel Özellikler Main Features

Üstün performansa sahip devrim niteliğinde LED teknolojisi.

Samsung LED çip teknolojisinde biriken yaratıcılık, çeşitli uygulamalar için yüksek çözümler sağlar. Son derece uygun maliyetli üniversal Mid-Power, High-Power ve COB LED'leri. İhtiyaçlarınıza uyacak şekilde optimize edilmiş performans. Samsung LED'lerin EMC ve PCT kalıplama seçenekleri, performans standartlarını aşıyor.

Eşsiz pazar etkinliği, çeşitli genel aydınlatma pazarı ihtiyaçlarını karşılamak için serilerle olağanüstü üretkenlik sağlar.

Revolutionary technology with superior performance.

Accumulated ingenuity in Samsung LED chip technology enables elevated solutions for assorted applications. Highly Cost-Effective Universal Mid Power, High Power and COB LEDs. Optimized performance to suit your needs. Samsung LEDs EMC and PCT molding options exceed performance standards.

Unmatched market efficacy allows extraordinary productivity, with line-ups to meet various general lighting market needs.

SAMSUNG 2835 LEDs (Mid-Power)

LM283N+ DAY		
	Wattage	0,9W
	Luminous Efficacy	133 lm/W
	Forward Voltage	9.4 V
	Condition	4000K, 100 mA, 25°C
	MDER	0.76
	Luminous Flux	125 lm
	Pad Size	2,20 x 3,79 mm

LM283N+ NITE		
	Wattage	0,9W
	Luminous Efficacy	104 lm/W
	Forward Voltage	9.4 V
	Condition	2700K, 100 mA, 25°C
	MDER	0.34
	Luminous Flux	98 lm
	Pad Size	2,20 x 3,79 mm

LM281B+ Pro		
	Wattage	0,5W
	Luminous Efficacy	213 lm/W
	Forward Voltage	2.7 V
	Condition	5000K, 65 mA, 25°C
	MDER	-
	Luminous Flux	37,5 lm
	Pad Size	2,00 x 3,70 mm

LM281B+		
	Wattage	0,5W
	Luminous Efficacy	165 lm/W
	Forward Voltage	3.0 V
	Condition	5000K, 150 mA, 25°C
	MDER	-
	Luminous Flux	73 lm
	Pad Size	2,00 x 3,70 mm

LM281BA+		
	Wattage	0,2W
	Luminous Efficacy	150 lm/W
	Forward Voltage	3.0 V
	Condition	5000K, 60 mA, 25°C
	MDER	-
	Luminous Flux	26.5 lm
	Pad Size	2,00 x 3,70 mm

LM282B+		
	Wattage	0,9W
	Luminous Efficacy	128 lm/W
	Forward Voltage	6.0 V
	Condition	2700K, 150 mA, 25°C
	MDER	-
	Luminous Flux	118 lm
	Pad Size	2,00 x 3,70 mm

LM283B+		
	Wattage	0,9W
	Luminous Efficacy	133 lm/W
	Forward Voltage	9.0 V
	Condition	2700K, 100 mA, 25°C
	MDER	-
	Luminous Flux	120 lm
	Pad Size	2,00 x 3,70 mm

LM283BS+		
	Wattage	0,5W
	Luminous Efficacy	113 lm/W
	Forward Voltage	9.0 V
	Condition	2700K, 60 mA, 25°C
	MDER	-
	Luminous Flux	61.5 lm
	Pad Size	2,00 x 3,70 mm

LM286B+		
	Wattage	0,9W
	Luminous Efficacy	94 lm/W
	Forward Voltage	18.0 V
	Condition	2700K, 50 mA, 25°C
	MDER	-
	Luminous Flux	85 lm
	Pad Size	2,00 x 3,70 mm



SAMSUNG 3030 LEDs (Mid-Power)

LM301B		
	Wattage	0,2W
	Luminous Efficacy	220 lm/W
	Forward Voltage	2.71 V
	Condition	5000K, 65 mA, 25°C
	MDER	-
	Luminous Flux	38.8 lm
	Pad Size	2,80 x 3,50 mm

LM301B EVO		
	Wattage	0,2W
	Luminous Efficacy	230 lm/W
	Forward Voltage	2.69 V
	Condition	5000K, 65 mA, 25°C
	MDER	-
	Luminous Flux	40.2 lm
	Pad Size	2,80 x 3,50 mm

SAMSUNG 3030 LEDs (Mid-Power)

LM301H EVO



Wattage	0,2W
Luminous Efficacy	-
Forward Voltage	2.70 V
Condition	5000K, 65 mA, 25°C, 80CRI
PPF Photosynthetic Photon Flux	0.56 µmol/s
PPE Photosynthetic Photon Efficacy	3.14 µmol/J
Pad Size	2,80 x 3,50 mm

LM301H



Wattage	0,2W
Luminous Efficacy	-
Forward Voltage	2.70 V
Condition	5000K, 65 mA, 25°C, 80CRI
PPF Photosynthetic Photon Flux	0.56 µmol/s
PPE Photosynthetic Photon Efficacy	3.10 µmol/J
Pad Size	2,80 x 3,50 mm

LM301H ONE



Wattage	0,2W
Luminous Efficacy	-
Forward Voltage	2.70 V
Condition	3500K, 65 mA, 25°C, 70CRI
PPF Photosynthetic Photon Flux	0.49 µmol/s
PPE Photosynthetic Photon Efficacy	2.75 µmol/J
Pad Size	2,80 x 3,50 mm

LM302N DAY



Wattage	0,9W
Luminous Efficacy	135 lm/W
Forward Voltage	6.1 V
Condition	4000K, 150 mA, 25°C
MDER	0.76
Luminous Flux	123 lm
Pad Size	3,15 x 4,00 mm

LM302N NITE



Wattage	0,9W
Luminous Efficacy	133 lm/W
Forward Voltage	6.1 V
Condition	4000K, 150 mA, 25°C
MDER	0.58
Luminous Flux	121 lm
Pad Size	3,15 x 4,00 mm

LM301D



Wattage	0,2W
Luminous Efficacy	211 lm/W
Forward Voltage	2.70 V
Condition	5000K, 65 mA, 25°C
MDER	-
Luminous Flux	37 lm
Pad Size	3,15 x 4,00 mm

LM302D



Wattage	0,9W
Luminous Efficacy	162 lm/W
Forward Voltage	6.20 V
Condition	5000K, 150 mA, 25°C
MDER	-
Luminous Flux	151 lm
Pad Size	3,15 x 4,00 mm

LM301Z+



Wattage	0,2W
Luminous Efficacy	201 lm/W
Forward Voltage	2.72 V
Condition	5000K, 65 mA, 25°C
MDER	-
Luminous Flux	35.5 lm
Pad Size	3,15 x 4,00 mm

LM302Z+



Wattage	0,9W
LM302Z+	139 lm, 150 lm/W
LM302Z+ Eco	143 lm, 155 lm/W
Forward Voltage	6.20 V
Condition	5000K, 150 mA, 25°C
MDER	-
Pad Size	3,15 x 4,00 mm



SAMSUNG 5630 LEDs (Mid-Power)

LM561B Plus



Wattage	0,2W
Luminous Efficacy	192 lm/W
Forward Voltage	2.90 V
Condition	5000K, 65 mA, 25°C
MDER	-
Luminous Flux	36 lm
Pad Size	2,40 x 5,80 mm

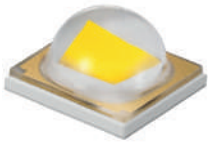
LM561C



Wattage	0,2W
Luminous Efficacy	210 lm/W
Forward Voltage	2.80 V
Condition	5000K, 65 mA, 25°C
MDER	-
Luminous Flux	38 lm
Pad Size	2,80 x 3,50 mm

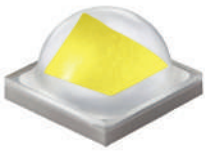
SAMSUNG 3535 LEDs (High-Power)

LH351B



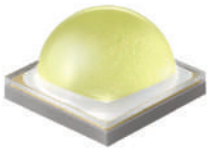
Wattage (Typ)	1.0 W @ 350 mA
Wattage (Max)	4.7 W @ 1.5 A
Luminous Flux (Typ)	177 lm @ 350 mA
Luminous Efficacy (Typ)	188 lm/W @ 350 mA
Size	3.5 x 3.5 x 1.93 mm
Pad Size	3,30 x 4,10 mm

LH351C



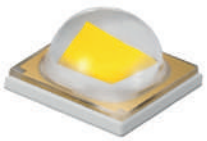
Wattage (Typ)	2.0 W @ 700 mA
Wattage (Max)	6.0 W @ 2.0 A
Luminous Flux (Typ)	351 lm @ 700 mA
Luminous Efficacy (Typ)	178 lm/W @ 700 mA
Size	3.5 x 3.5 x 2.33 mm
Pad Size	3,30 x 4,10 mm

LH351D



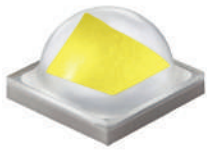
Wattage (Typ)	3.0 W @ 1050 mA
Wattage (Max)	9.8 W @ 3.0 A
Luminous Flux (Typ)	515 lm @ 1050 mA
Luminous Efficacy (Typ)	170 lm/W @ 1050 mA
Size	3.5 x 3.5 x 2.33 mm
Pad Size	3,30 x 4,10 mm

LH351H-B



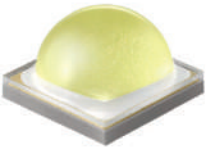
Wattage (Typ)	1.0 W @ 350 mA
Wattage (Max)	4.7 W @ 1.5 A
Condition	350 mA, 25°C, 5000K, CRI 70
PPF Photosynthetic Photon Flux	2.48 µmol/s
PPE Photosynthetic Photon Efficacy	2.51 µmol/J
Pad Size	3,30 x 4,10 mm

LH351H-C



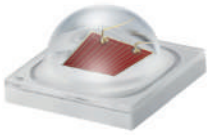
Wattage (Typ)	2.0 W @ 700 mA
Wattage (Max)	6.0 W @ 2.0 A
Condition	350 mA, 25°C, 5000K, CRI 70
PPF Photosynthetic Photon Flux	2.56 µmol/s
PPE Photosynthetic Photon Efficacy	2.60 µmol/J
Pad Size	3,30 x 4,10 mm

LH351H-D



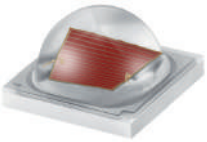
Wattage (Typ)	3.0 W @ 1050 mA
Wattage (Max)	9.8 W @ 3.0 A
Condition	350 mA, 25°C, 5000K, CRI 70
PPF Photosynthetic Photon Flux	2.58 µmol/s
PPE Photosynthetic Photon Efficacy	2.69 µmol/J
Pad Size	3,30 x 4,10 mm

LH351H Red (630 nm)



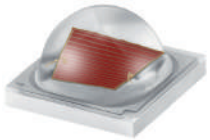
Wattage (Typ)	0.7 W @ 350 mA
Wavelength	630 nm
Condition	350 mA, 25°C
PPF Photosynthetic Photon Flux	1.82 µmol/s
PPE Photosynthetic Photon Efficacy	2.42 µmol/J
Pad Size	3,30 x 4,10 mm

LH351H Deep Red (660 nm) V4



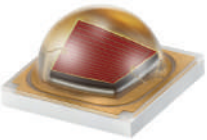
Wattage (Typ)	1.5 W @ 700 mA
Wavelength	660 nm
Condition	700 mA, 25°C
PPF Photosynthetic Photon Flux	5.86 µmol/s
PPE Photosynthetic Photon Efficacy	4.00 µmol/J
Pad Size	3,30 x 4,10 mm

LH351H Deep Red (660 nm) V3



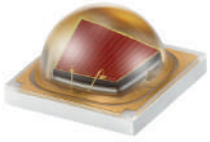
Wattage (Typ)	1.5 W @ 700 mA
Wavelength	660 nm
Condition	700 mA, 25°C
PPF Photosynthetic Photon Flux	5.72 µmol/s
PPE Photosynthetic Photon Efficacy	3.85 µmol/J
Pad Size	3,30 x 4,10 mm

LH351H Deep Red (660 nm) V2 New



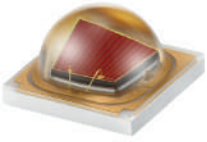
Wattage (Typ)	1.5 W @ 700 mA
Wavelength	660 nm
Condition	700 mA, 25°C
PPF Photosynthetic Photon Flux	5.67 µmol/s
PPE Photosynthetic Photon Efficacy	3.80 µmol/J
Pad Size	3,30 x 4,10 mm

LH351H Deep Red (660 nm)



Wattage (Typ)	0.7 W @ 350 mA
Wavelength	660 nm
Condition	350 mA, 25°C
PPF Photosynthetic Photon Flux	2.40 µmol/s
PPE Photosynthetic Photon Efficacy	3.27 µmol/J
Pad Size	3,30 x 4,10 mm

LH351H Far Red (730 nm)



Wattage (Typ)	0.7 W @ 350 mA
Wavelength	730 nm
Condition	350 mA, 25°C
PPF Photosynthetic Photon Flux	2.07 µmol/s
PPE Photosynthetic Photon Efficacy	3.11 µmol/J
Pad Size	3,30 x 4,10 mm

LH351H Blue (450 nm)

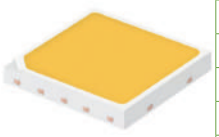


Wattage (Typ)	1.0 W @ 350 mA
Wavelength	450 nm
Condition	350 mA, 25°C
PPF Photosynthetic Photon Flux	2.80 µmol/s
PPE Photosynthetic Photon Efficacy	2.86 µmol/J
Pad Size	3,30 x 4,10 mm



SAMSUNG 5050 LEDs (High-Power)

LH502HD		
	Wattage (Typ)	3.9 W @ 640 mA (6.08V)
	Wattage (Max)	6.4 W @ 1000 mA
	Condition	5000K, 350 mA, 25°C
	PPF Photosynthetic Photon Flux	5.36 µmol/s
	PPE Photosynthetic Photon Efficacy	2.69 µmol/J
	Size	5,00 x 5,00 x 0,70 mm
	Pad Size	5,57 x 5,40 mm

LH502D		
	Wattage (Typ)	3.9 W @ 640 mA (6.08 V)
	Wattage (Max)	6.4 W @ 1000 mA
	Luminous Flux (Typ)	720 lm @ 640 mA
	Luminous Efficacy (Typ)	185 lm/W @ 640 mA
	Size	5,00 x 5,00 x 0,70 mm
	Pad Size	5,57 x 5,40 mm

LH508D		
	Wattage (Typ)	3.9 W @ 160 mA (24.0 V)
	Wattage (Max)	6.4 W @ 250 mA
	Luminous Flux (Typ)	720 lm @ 160 mA
	Luminous Efficacy (Typ)	185 lm/W @ 160 mA
	Size	5,00 x 5,00 x 0,70 mm
	Pad Size	5,57 x 5,40 mm

LH502C ECO		
	Wattage (Typ)	3.9 W @ 640 mA (6.1 V)
	Wattage (Max)	5.6 W @ 880 mA
	Luminous Flux (Typ)	700 lm @ 640 mA
	Luminous Efficacy (Typ)	180 lm/W @ 640 mA
	Size	5,00 x 5,00 x 0,70 mm
	Pad Size	5,57 x 5,40 mm

LH502C		
	Wattage (Typ)	3.9 W @ 640 mA (6.1 V)
	Wattage (Max)	5.6 W @ 880 mA
	Luminous Flux (Typ)	700 lm @ 640 mA
	Luminous Efficacy (Typ)	180 lm/W @ 640 mA
	Size	5,00 x 5,00 x 0,70 mm
	Pad Size	5,57 x 5,40 mm

LH508C		
	Wattage (Typ)	3.9 W @ 160 mA (24.4 V)
	Wattage (Max)	5.6 W @ 220 mA
	Luminous Flux (Typ)	700 lm @ 160 mA
	Luminous Efficacy (Typ)	180 lm/W @ 160 mA
	Size	5,00 x 5,00 x 0,70 mm
	Pad Size	5,57 x 5,40 mm



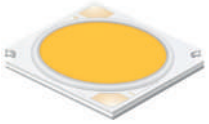
SAMSUNG COB LEDs

LC003D	
	
Wattage	3.0 W
Forward Voltage	33.8 V
Luminous Flux	499 lm
Luminous Efficacy	166 lm/W
Condition	Gen3 CRI 80, 3000K, 90mA
Size	13.5 x 13.5 mm
LES	9.8 mm

LC006D	
	
Wattage	6.1 W
Forward Voltage	33.8 V
Luminous Flux	994 lm
Luminous Efficacy	163 lm/W
Condition	Gen3 CRI 80, 3000K, 180 mA
Size	13.5 x 13.5 mm
LES	9.8 mm

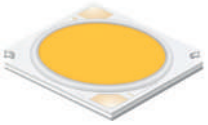
LC009D	
	
Wattage	9.1 W
Forward Voltage	33.8 V
Luminous Flux	1476 lm
Luminous Efficacy	162 lm/W
Condition	Gen3 CRI 80, 3000K, 270 mA
Size	13.5 x 13.5 mm
LES	9.8 mm

LC013D	
	
Wattage	12.2 W
Forward Voltage	33.8 V
Luminous Flux	1939 lm
Luminous Efficacy	159 lm/W
Condition	Gen3 CRI 80, 3000K, 360 mA
Size	13.5 x 13.5 mm
LES	9.8 mm

LC016D	
	
Wattage	15.2 W
Forward Voltage	33.8 V
Luminous Flux	2497 lm
Luminous Efficacy	164 lm/W
Condition	Gen3 CRI 80, 3000K, 450 mA
Size	19.0 x 19.0 mm
LES	14.5 mm

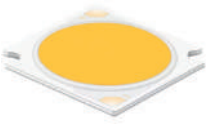
LC019D	
	
Wattage	18.3 W
Forward Voltage	33.8 V
Luminous Flux	2982 lm
Luminous Efficacy	163 lm/W
Condition	Gen3 CRI 80, 3000K, 540 mA
Size	19.0 x 19.0 mm
LES	14.5 mm

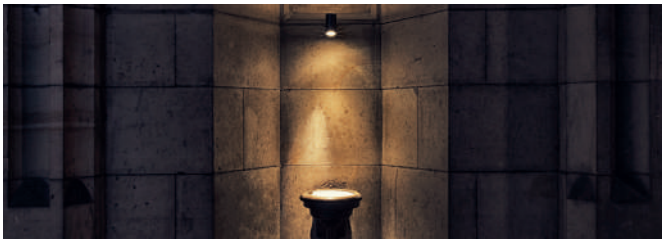
LC026D	
	
Wattage	24.3 W
Forward Voltage	33.8 V
Luminous Flux	3917 lm
Luminous Efficacy	161 lm/W
Condition	Gen3 CRI 80, 3000K, 720 mA
Size	19.0 x 19.0 mm
LES	14.5 mm

LC033D	
	
Wattage	30.4 W
Forward Voltage	33.8 V
Luminous Flux	4847 lm
Luminous Efficacy	159 lm/W
Condition	Gen3 CRI 80, 3000K, 900 mA
Size	19.0 x 19.0 mm
LES	14.5 mm

LC040D	
	
Wattage	36.5 W
Forward Voltage	33.8 V
Luminous Flux	5963 lm
Luminous Efficacy	163 lm/W
Condition	Gen3 CRI 80,3000K,1080 mA
Size	28.0 x 28.0 mm
LES	22.0 mm

LC060D	
	
Wattage	54.8 W
Forward Voltage	50.7 V
Luminous Flux	8813 lm
Luminous Efficacy	161 lm/W
Condition	Gen3 CRI 80,3000K,1080 mA
Size	28.0 x 28.0 mm
LES	22.0 mm

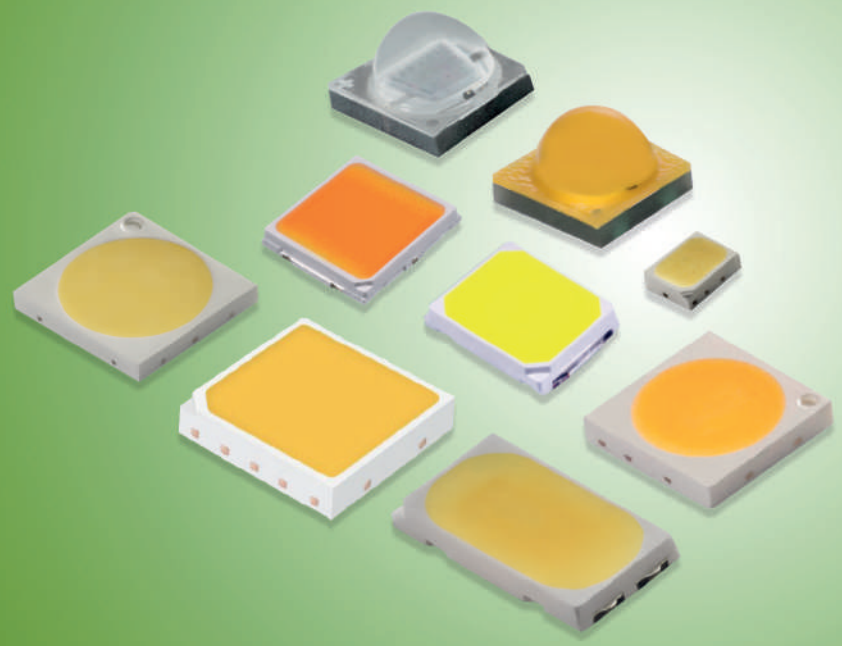
LC080D	
	
Wattage	82.1 W
Forward Voltage	50.7 V
Luminous Flux	13069 lm
Luminous Efficacy	159 lm/W
Condition	Gen3 CRI 80, 3000K, 1620 mA
Size	28.0 x 28.0 mm
LES	22.0 mm



ELEKTRONİK

CREE LED

LEDs



Genel Özellikler Main Features

Genel ve özel aydınlatma uygulamaları için mükemmel değerler.

Sektörün en yaygın LED paket boyutlarında genel ve özel aydınlatma uygulamaları için mükemmel değerler. 2835 (3-V G Sınıfı) ve 5050 (5050C E Sınıfı) LED'lerde yüksek etkinlik değerleri. Portföyün tamamında tipik ışık çıkışı ve voltaj özellikleri, Cree LED'in üst düzey küresel IP güvencesi ile sunulmaktadır.

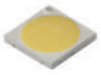
Excellent values for general and specialty lighting applications.

Excellent value for general and specialty lighting applications in the industry's most common LED package sizes. Highest efficacy 2835 (3-V G Class) & 5050 (5050C E Class) LEDs available. Typical light output & voltage specifications across the whole portfolio. Cree LED's top-tier global IP indemnification.

CREE 5050 J-Series LEDs


JR5050C


JR5050B


JR5050

Voltage	Product / Class	Typ.Current (mA)	Typ. Voltage (V)	4000K, 70 CRI		3000K, 80 CRI		Max. Current (mA)
				Typical Flux (lm)	Typical LPW	Typical Flux (lm)	Typical LPW	
6-V	JR5050C / E	400	5.63	480	213	424	188	1000
	JR5050B / K	400	5.67	455	201	404	178	1000
	JR5050 / P	400	5.77	442	192	394	171	1000
	JR5050 / Q	400	5.80	425	183	385	166	1000
9-V	JR5050 / P	260	8.56	434	195	383	172	660
	JR5050 / Q	260	8.60	415	186	372	166	660
24-V	JR5050 / P	100	23.08	442	192	394	171	240
	JR5050 / Q	100	23.50	430	183	385	164	240
30-V	JR5050B / K	80	28.35	455	201	404	178	240
36-V	JR5050 / Q	65	34.50	415	185	372	166	165

CREE 3030 J-Series LEDs


Jx3030 HE


Jx3030

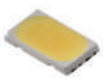
Voltage	Product / Class	Typ.Current (mA)	Typ. Voltage (V)	4000K, 70 CRI		3000K, 80 CRI		Max. Current (mA)
				Typical Flux (lm)	Typical LPW	Typical Flux (lm)	Typical LPW	
3-V	JB3030 HE / B	65	2.70	38.3	218	34.1	194	480
	JB3030 HE / D	65	2.79	37.9	209	33.8	186	240
	JB3030 / P	65	2.81	35.7	196	31.7	174	240
	JK3030 / P	350	3.15	164	149	144	131	400
6-V	JK3030 HE / B	150	6.00	160	178	143	159	240
	JK3030 / P	150	6.05	155	171	139	153	240

CREE 2835 J-Series LEDs


Jx2835

Voltage	Product / Class	Typ.Current (mA)	Typ. Voltage (V)	4000K, 70 CRI		3000K, 80 CRI		Max. Current (mA)
				Typical Flux (lm)	Typical LPW	Typical Flux (lm)	Typical LPW	
3-V	JB2835B / G	55	2.67	31.8	217	29.9	204	480
	JB2835B / J	55	2.68	31.0	210	29.1	197	480
	JE2835B / N	150	2.86	78.1	182	73.8	172	240
	JE2835B / P	150	3.04	77.0	169	72	158	240
	JE2835 / R	150	2.95	73.5	166	70.5	159	240
	JB2835 / W	60	2.91	30.4	174	29.1	167	150
6-V	JK2835 / P	150	6.07	154	169	146	160	240
	JK2835B / W	150	6.35	137	144	131	138	200
9-V	JK2835B / U	100	9.10	143	157	132	145	120
	JK2835B / W	100	9.15	132	144	124	136	120
18-V	JK2835B / U	50	18.1	141	156	133	147	60
	JK2835 / X	50	18.2	126	138	119	131	60

CREE 5630 & 2016 J-Series LEDs


JB5630


JB2016

Voltage	Product / Class	Typ.Current (mA)	Typ. Voltage (V)	4000K, 70 CRI		3000K, 80 CRI		Max. Current (mA)
				Typical Flux (lm)	Typical LPW	Typical Flux (lm)	Typical LPW	
3-V	JB5630 / H	65	2.71	36.8	209	34.5	196	240
	JB5630 / P	65	2.80	36.4	200	33.6	185	240
	JB2016B / P	60	3.0	27.8	154	26.5	147	120

CREE 3535 XLamp® XT-E LEDs


XT-E White


XT-E Royal Blue

Voltage	Product / Class	Typ.Current (mA)	Typ. Voltage (V)
3-V	XT-E White	1500	2.77
	XT-E Royal Blue	1500	2.80

ELEKTRONİK

FUCON



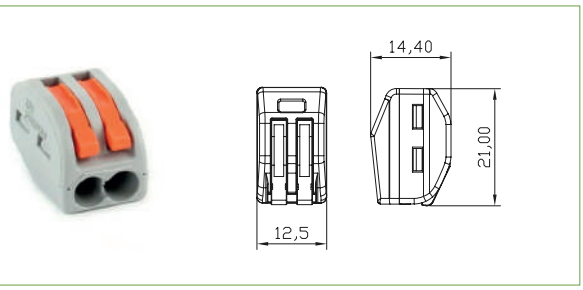
Konnektörler Connectors

SMD ve kablo bağlantıları için uluslararası standartlarda sertifikalı konnektörler.

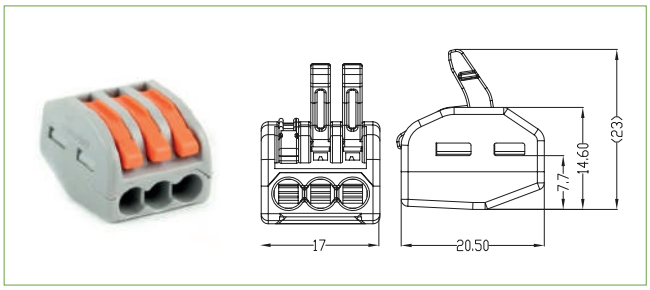
Yüksek kaliteli FUCON konnektör ailesinden SMD ve kablo bağlantıları için konnektör çözümleri.

Certified connectors to international standards for SMD and cable connections.

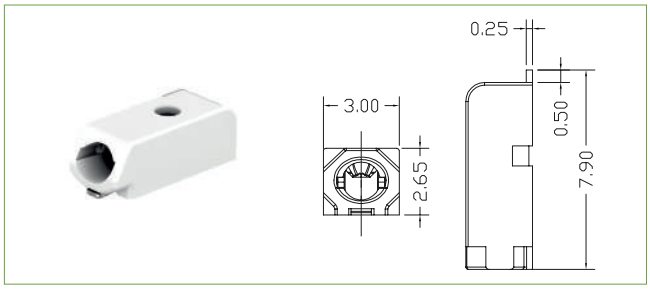
Connector solutions for SMD and cable connections from the high-quality FUCON connector family.



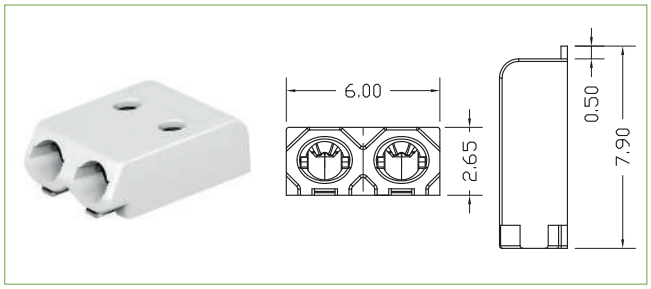
Model	CM-222-2P
Voltage	250V
Current	32A
Cable Range	Soft: 0,08mm² - 4,0mm²
	Solid: 0,08mm² - 2,5mm²
Strip Lenght	9-10mm / 0,39in



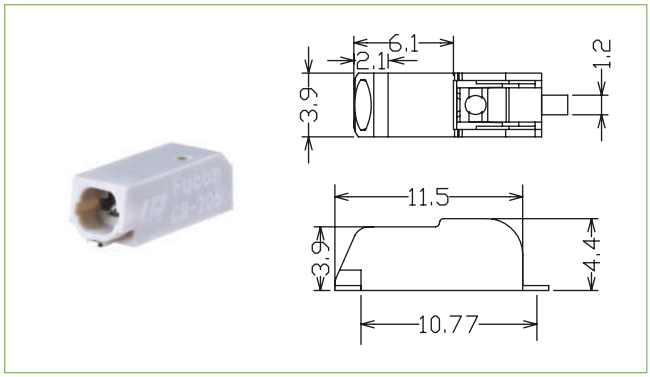
Model	CM-222-3P
Voltage	400V / 600V
Current	32A / 20A
Cable Range	Soft: 0,08mm² - 4,0mm²
	Solid: 0,08mm² - 2,5mm²
Strip Lenght	9-10mm / 0,39in



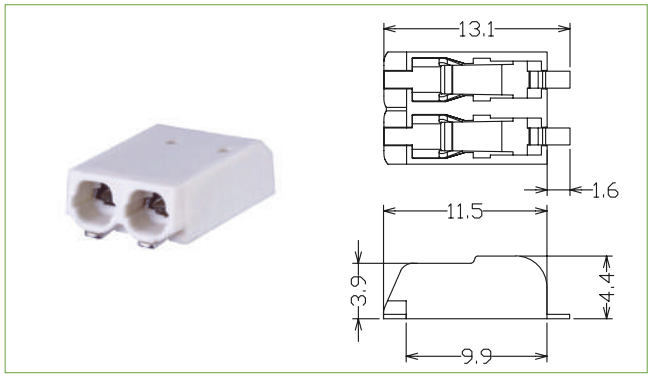
Model	CM-2059-1P
Voltage	300V
Current	3A
Wire Size	26~22AWG



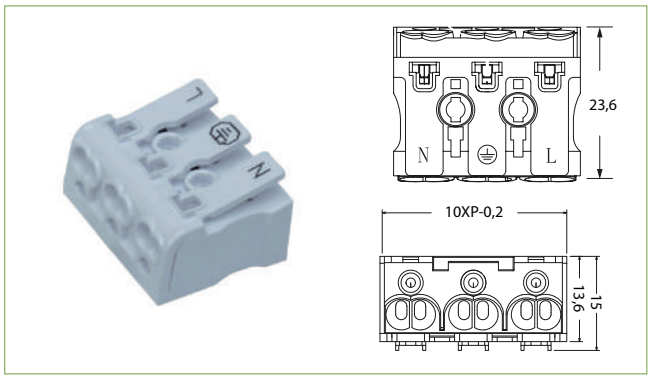
Model	CM-2059-2P
Voltage	300V
Current	3A
Wire Size	26~22AWG



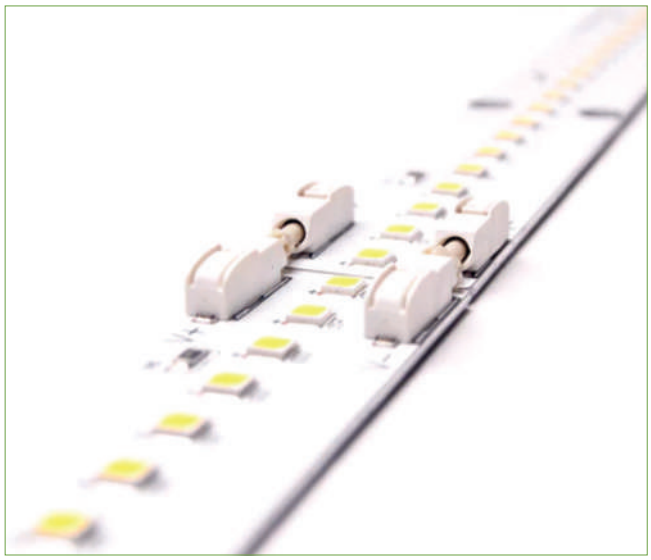
Model	CM-2060-1P
Voltage	300V
Current	9A
Wire Size	AWG24 - 18



Model	CM-2060-2P
Voltage	320V / 160V
Current	9A
Wire Size	AWG24 - 18



Model	CM-238
Voltage	450V
Current	24A
Wire Size	AWG214 - 18





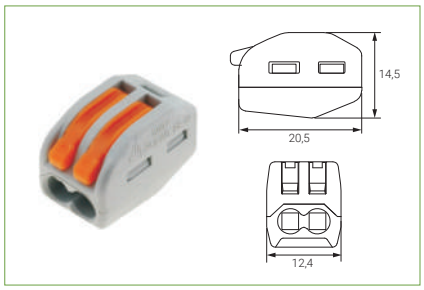
Konnektörler Connectors

SMD ve kablo bağlantıları için uluslararası standartlarda sertifikalı konnektörler.

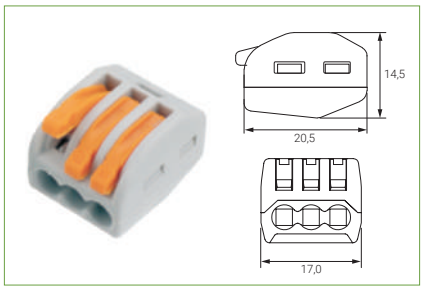
Yüksek kaliteli KLS konnektör ailesinden SMD ve kablo bağlantıları için konnektör çözümleri.

Certified connectors to international standards for SMD and cable connections.

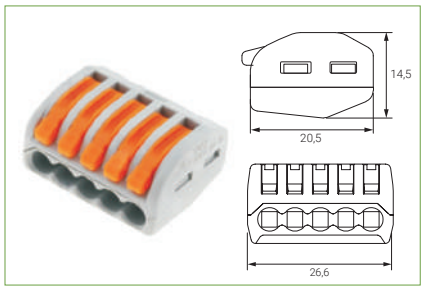
Connector solutions for SMD and cable connections from the high-quality KLS connector family.



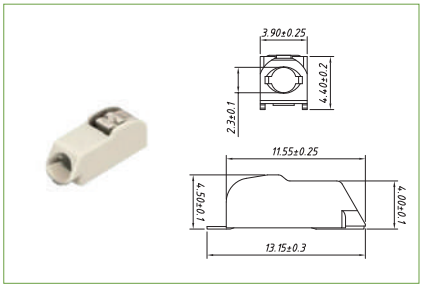
Model	L-KLS2-CT258-02P-1
Voltage	400V
Current	32A
Cable Range	Soft: 0,08mm² - 4,0mm²
	Solid: 0,08mm² - 2,5mm²
Strip Lenght	9-10mm / 0,39in



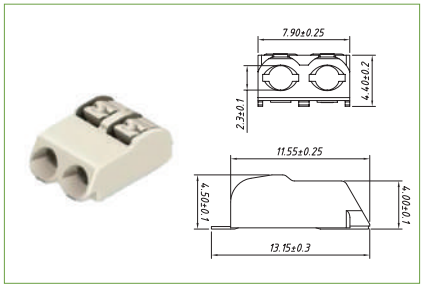
Model	L-KLS2-CT258-03P-1
Voltage	400V
Current	32A
Cable Range	Soft: 0,08mm² - 4,0mm²
	Solid: 0,08mm² - 2,5mm²
Strip Lenght	9-10mm / 0,39in



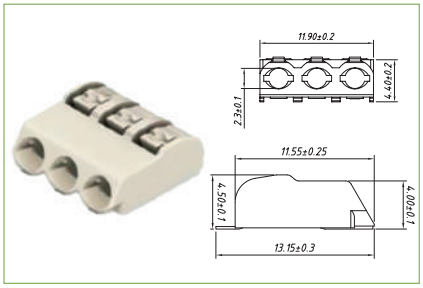
Model	L-KLS2-CT258-05P-1
Voltage	400V
Current	32A
Cable Range	Soft: 0,08mm² - 4,0mm²
	Solid: 0,08mm² - 2,5mm²
Strip Lenght	9-10mm / 0,39in



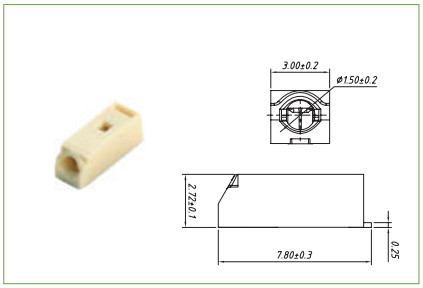
Model	L-KLS2-L13-01P
Voltage	250V AC DC
Current	6.0A AC DC
Wire	24~18AWG



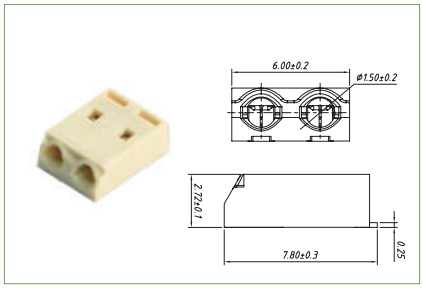
Model	L-KLS2-L13-02P
Voltage	250V AC DC
Current	6.0A AC DC
Wire	24~18AWG



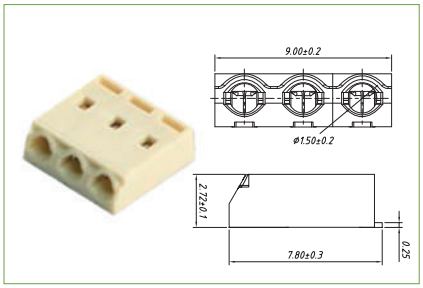
Model	L-KLS2-L13-03P
Voltage	250V AC DC
Current	6.0A AC DC
Wire	24~18AWG



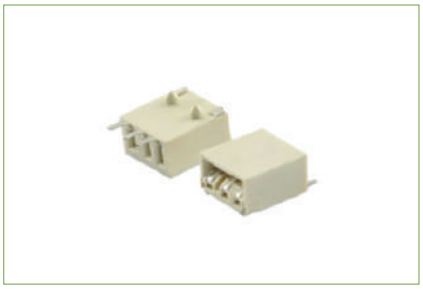
Model	L-KLS2-L83-01P
Voltage	275V AC DC
Current	2.0A AC DC
Wire	24~18AWG



Model	L-KLS2-L83-02P
Voltage	275V AC DC
Current	2.0A AC DC
Wire	24~18AWG



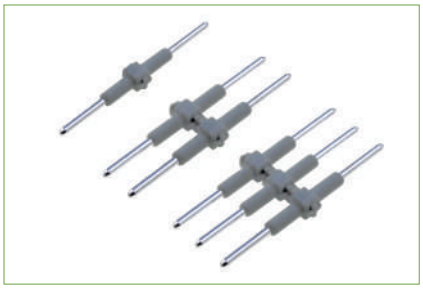
Model	L-KLS2-L83-03P
Voltage	275V AC DC
Current	2.0A AC DC
Wire	24~18AWG



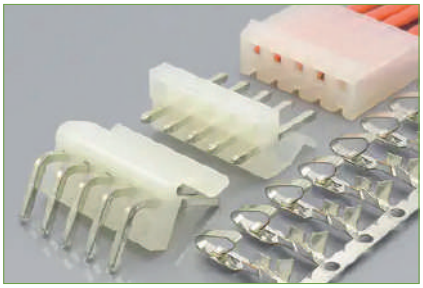
Model	L-KLS2-L47-02P
Voltage	250/150V AC DC
Current	1.0A AC DC
Wire	24~18AWG



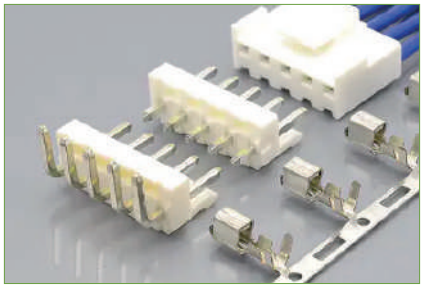
Model	L-KLS2-L59-02P
Voltage	250V AC DC
Current	2.0A AC DC
Wire	24~18AWG



Model	KLS2-L13PIN
Voltage	250V AC DC
Current	6.0A AC DC
Contact	Brass,Ni-plated



Model	L-KLS1-3.96
Voltage	250V AC DC
Current	7.0A AC DC
Wire	24~18AWG



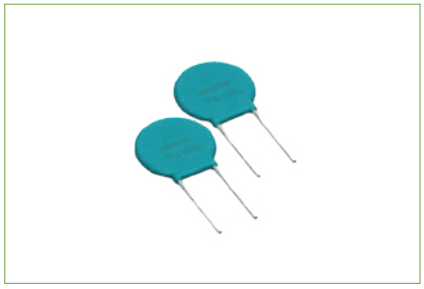
Model	L-KLS1-3.96A
Voltage	250V AC DC
Current	7.0A AC DC
Wire	24~18AWG

ELEKTRONİK

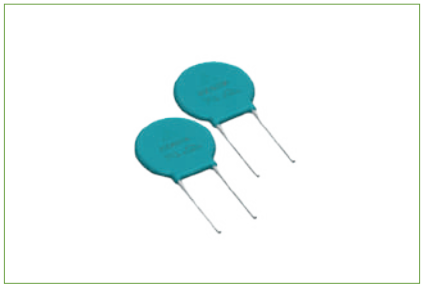


Yarı İletkenler Semicoductors

Metal Oxide Varistors



Model	20D241K
Peak Current 8/20us (A)	6500
Voltage (V)	18-1800



Model	20D241KJ
Peak Current 8/20us (A)	10000
Voltage (V)	18-1800

Gas Discharge Tube



Model	UN2E8-800H
Nominal discharge current 8/20us (KA)	20
Voltage (V)	75-800

Thermal Fuse & MOV (TFMOV)

14D331KTA



Varistor Voltage (V)	Mark Tolerance (V)	Vc (V)	Ip (A)	@1kHz (PF)	VRMS (V)	Vdc (V)	Energy (J)	Power (W)
330	10	550	50	850	210	275	80	0.6

20D331KTA



Varistor Voltage (V)	Mark Tolerance (V)	Vc (V)	Ip (A)	@1kHz (PF)	VRMS (V)	Vdc (V)	Energy (J)	Power (W)
330	10	550	100	1750	210	275	160	1.0

25D331KTA



Varistor Voltage (V)	Mark Tolerance (V)	Vc (V)	Ip (A)	@1kHz (PF)	VRMS (V)	Vdc (V)	Energy (J)	Power (W)
330	10	550	150	2200	210	275	180	1.0

32D511KTA



Varistor Voltage (V)	Mark Tolerance (V)	Vc (V)	Ip (A)	@1kHz (PF)	VRMS (V)	Vdc (V)	Energy (J)	Power (W)
510	10	845	200	1600	320	410	430	1.2

Thyristor Surge Suppressors (TSS)

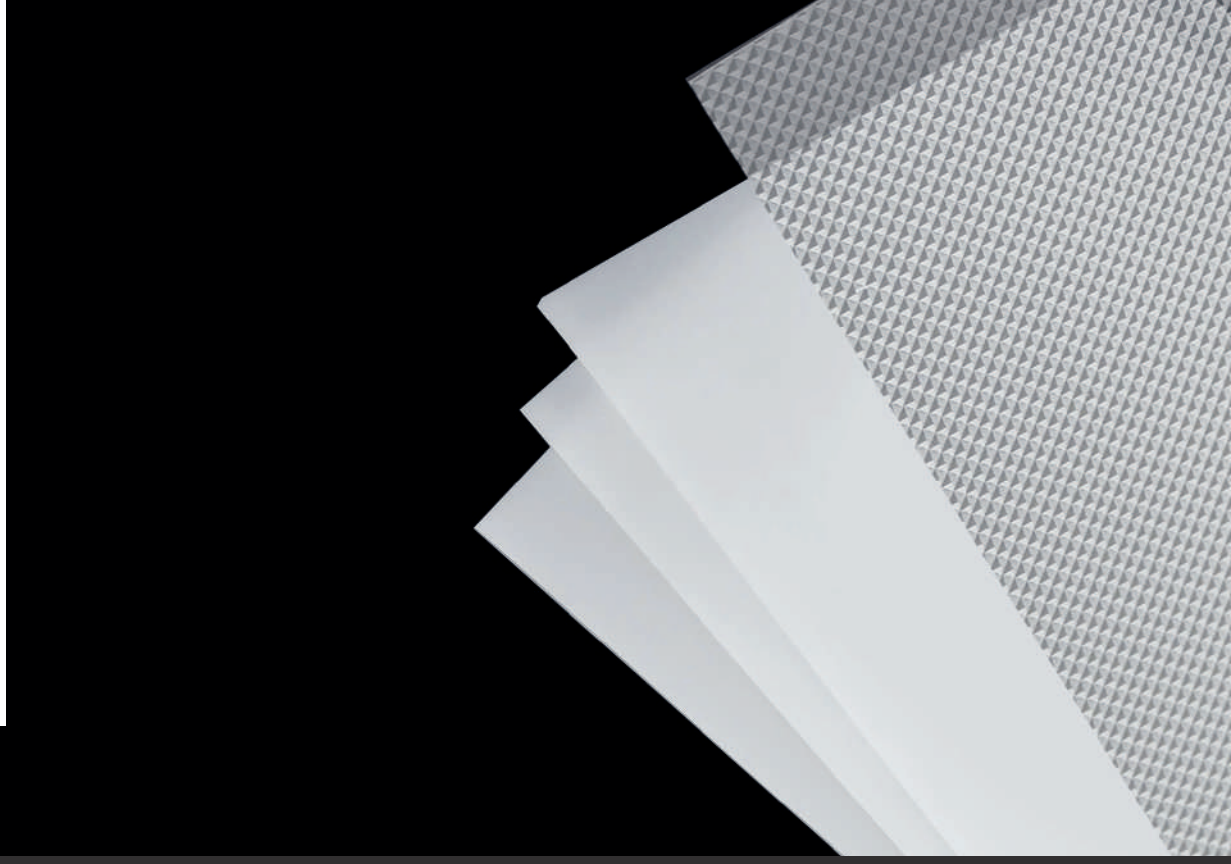
P0080DM



Vdrm (Vmin)	Idrm (µA max)	Vs (Vmax)	Is (mA max)	Vt (Vmax)	It (A max)	Ih (mA min)	Co (pF max)
6	5	25	800	4	2.2	50	50

ELEKTRONİK

JIANKUN OPTICS



Difüzörler Diffusers

Uniform aydınlatma sağlayan, yüksek verimli ve olağanüstü gizleme kabiliyetine sahip difüzyon levhaları.

Led Işık difüzörü, çoğunlukla ekstrüde olarak, LED aydınlatma armatürleri için bir difüzyon levhası olarak özel olarak geliştirilmiştir. Difüzyon levhası, optik PMMA veya Polikarbonat veya Polistiren reçine bazında üretilir.

Gelişmiş optik tasarım ve bilimsel tekniklerle üretilen levhalar üzerine gelen ışığın yumuşak, etkili ve daha uniform hale gelmesini sağlamak için sürekli olarak kimya parçacıklarında ve reçinede kırılabilir ve dağılabilir. Bu sayede ışık kaynağından çıkan ışık insan gözünü rahatsız etmeyecek şekilde konforlu bir ortam oluşturur.

Diffusion sheet with high efficiency and outstanding hiding ability and increase lighting uniformity.

Led Light diffuser, mostly extruded product was developed specifically as a diffusion sheet for led lighting fixtures. The diffusion sheet is produced base on optical PMMA pr Polycarbonate or Polystyrene resin.

Produced by advanced optical design and scientific techniques, the sheets can be refracted and dispersed continuously in chemistry particles and resin to make the incident light become soft, effective and more uniform. In this way, the light emanating from the light source creates a comfortable environment that does not disturb the human eye.



Model	JK-62
Material	Polysytrene (PS)
Transmission Rate	%60 - %62
Tensile Broken Strenght	47Mpa
Flexural Strenght	85Mpa
Plate Size	1200x1200mm
Thickness	0.7/0.8/0.9/1.0/1.20/2.0/3.0 mm
Surface	Opal White



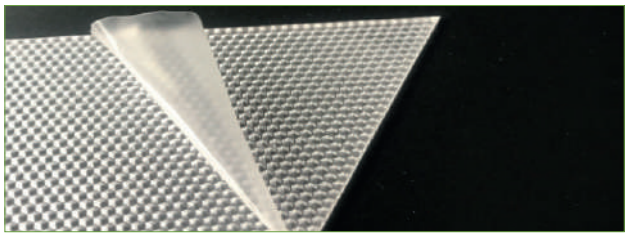
Model	JK-72
Material	Polysytrene (PS)
Transmission Rate	%70 - %74
Tensile Broken Strenght	47Mpa
Flexural Strenght	85Mpa
Plate Size	1200x1200mm
Thickness	0.7/0.8/0.9/1.0/1.20/2.0 mm
Surface	Opal White



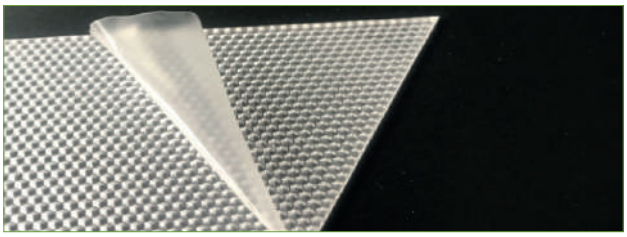
Model	JK-PS76
Material	Polysytrene (PS)
Transmission Rate	%76
Linear expansivity	8x10-5 cm/cmºC
Flexural Strenght	85Mpa
Plate Size	1200x1200mm
Thickness	1.5mm/1.2mm/1.0mm/0.8mm
Surface	Opal White



Model	JK-76
Material	PMMA
Transmission Rate	%80
Linear expansivity	7,8x10-5 cm/cmºC
Flexural Strenght	85Mpa
Plate Size	1200x1200mm
Thickness	1.2mm/1.5mm/2.0mm/3.0mm
Surface	Opal White



Model	JK-PSLZB
Material	Polysytrene (PS)
Transmission Rate	%76 - %78
Tensile Strenght	270 Kg/cm²
Pattern	Concave hexagon, depth: 0,6mm
Plate Size	1200x1200mm
Thickness	1.2mm/1.5mm/2.0mm
Surface	Clear



Model	JK-DLZBPS
Material	Polysytrene (PS)
Transmission Rate	%70
Tensile Strenght	270 Kg/cm²
Pattern	Concave hexagon, depth: 0,6mm
Plate Size	1200x1200mm
Thickness	1.2mm/1.5mm/2.0mm
Surface	Clear



Kollimatörler ve Lensler Collimators and Lenses

Yüksek verimli ve olağanüstü optik tasarım ile ışık kontolü.

Toplam İç Yansıma (TIR), ışın belirli bir kritik açının üzerinde optik olarak daha yoğun taraftan gelen ortamlar arasında yüzeye çarptığında, altta yatan fiziksel ilkelerin bir sonucu olarak bir yüzeyden bir ışık ışınının kayıpsız yansımasıdır. Bu efekt kolimatör lenslerde kullanılır. Bir ışık kaynağının emisyonunu yakalayabilen optik özellikli lensler ile LED'in yarım küre radyasyonu üzerinden ışık kontrolü sağlanır.

Optik kolimatör yüzeyi, yüksek verimli ışın sapmasını sağlamak için en yaygın olarak TIR olgusundan yararlanır.

Light control with highly efficient and outstanding optical design.

Total Internal Reflection (TIR) is the lossless reflection of a light beam from a surface as a result of the underlying physical principles when the beam hits the surface between media from the optically denser side above a certain critical angle. This effect is used in collimator lenses. Light control is provided over the hemispherical radiation of the LED with optical lenses that can capture the emission of a light source.

The optical collimator surface most commonly takes advantage of the TIR phenomenon to achieve high efficiency beam deflection.



LLC22N	CREE	OSRAM	NICHIA	CREE
Dar Açı / Norrow	XQ-E HI	OSLON COMPACT CL	NCSWE17AT	XD16
FWHM (º)	9.6	9.8	11.2	13.2
FWTM (º)	18.6	19.2	21.7	24.5
Efficacy (cd/lm)	18.7	19.1	14.9	10.1

Seçenekler: Orta Açı, Geniş Açı, Çok Geniş Açı, Eliptik Açı **Options:** Medium Angle, Wide Angle, Large Angle, Eliptical Angle



LLC25N	OSRAM	LUMILEDS	NICHIA	CREE
Dar Açı / Narrow	OSTAR STAGE RGBW	LUXEON Z RGBW	NCSWE17AT	XHP35.2 HI
FWHM (º)	11.5	12.9	7.9	11.3
FWTM (º)	20.8	22.7	15.9	22.3
Efficacy (cd/lm)	18.3	15.5	33.6	16.5
Color Consistency Index	6.0	16.5	1.8	3.1

Seçenekler: Orta Açı, Geniş Açı, Çok Geniş Açı, Eliptik Açı, Asimetrik Açı **Options:** Medium Angle, Wide Angle, Large Angle, Eliptical Angle, Asymmetric Angle



LLC59RF	OSRAM	LUMILEDS	CREE	NICHIA
Dar Açı / Narrow	OSLON COMPACT CL	LUXEON Z ES	XHP35.2 HI	NV4WB35AM
FWHM (º)	3.6	4.6	7.3	8.4
FWTM (º)	7.9	9.8	14.2	15.9
Efficacy (cd/lm)	120.1	79.2	35.5	28.1
Color Consistency Index	1.9	0.7	2.8	1.0

Seçenekler: Ultra Dar Açı, Orta Açı, Geniş Açı, Çok Geniş Açı, Eliptik Açı **Options:** Ultra Narrow Angle, Medium Angle, Wide Angle, Large Angle, Eliptical Angle



LLC79N7	CITIZEN	CITIZEN	CREE	CREE	CREE
Dar Açı / Narrow	CLU700	CLU711	CXB1310	CXB1520	XHP35HI
FWHM (º)	15.3	20.8	14.5	20.8	7.3
FWTM (º)	27.5	35.8	27.7	33.3	13.5
Efficacy (cd/lm)	10.2	5.9	11.3	6.7	45.2

Seçenekler: Orta Açı, Geniş Açı, Çok Geniş Açı, Renk **Options:** Medium Angle, Wide Angle, Large Angle, Color



LLC66N7	CITIZEN	CITIZEN	LUMINUS	LUMILEDS	CREE
Dar Açı / Narrow	CLU702	CLU711	CXM-4	LUXEON MZ	XHP70.2
FWHM (º)	10.8	13.7	7.8	6.3	12.0
FWTM (º)	18.5	22.8	15.5	10.8	20.1
Efficacy (cd/lm)	21.1	14.0	33.4	62.1	18.3

Seçenekler: Orta Açı, Geniş Açı, Çok Geniş Açı, Zoom **Options:** Medium Angle, Wide Angle, Large Angle, Zoom

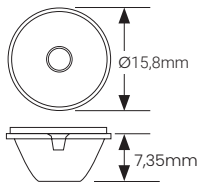


LLC76N7	CITIZEN	CITIZEN	XICATO	CREE	LUMILEDS
Dar Açı / Narrow	CLU702	CLU711	XOB09	XHP35.2 HD	LUXEON COB 1202
FWHM (º)	9.8	13.4	12.6	6.5	9.9
FWTM (º)	18.1	22.2	22.3	11.9	17.7
Efficacy (cd/lm)	20.0	11.7	11.0	40.6	22.1

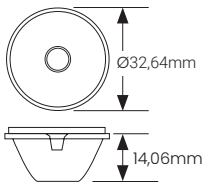
Seçenekler: Orta Açı, Geniş Açı **Options:** Medium Angle, Wide Angle

Ölçüler Dimensions

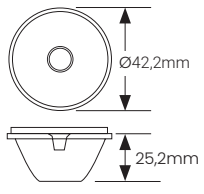
LLC22N



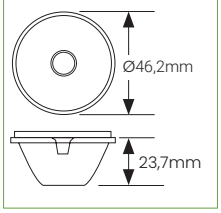
LLC25N



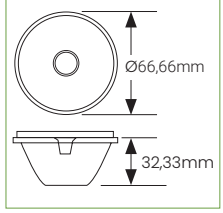
LLC59RF



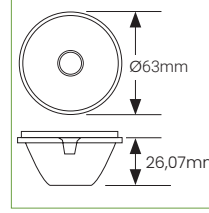
LLC79N7



LLC66N7



LLC76N7



AVIKA

Yol & Sokak Aydınlatma Lens Serisi *Street Lighting Optic Range*



AVIKA 2x2
5050 T3S



AVIKA 2x2
5050 T2S



AVIKA 2x2
5050 T3M



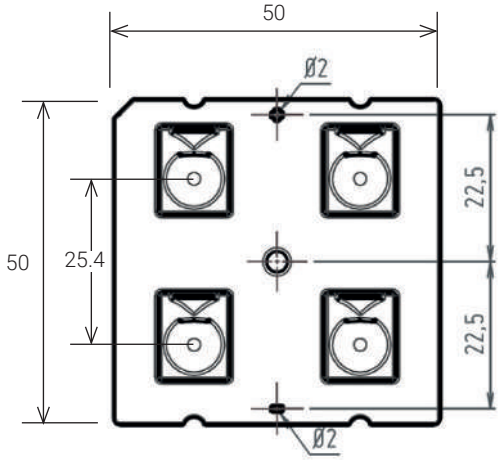
AVIKA 2x2
5050 T3S M



AVIKA 2x2
5050 T2S M



AVIKA 2x2
5050 T3M M



KORNEA

Yol & Sokak Aydınlatma Lens Serisi *Street Lighting Optic Range*



Model	OPLLS0091C
LED	16 in 1
Material	PC
Operating Temperature	-40ºC to +120ºC
Dimensions (LxWxH)	100 x 60 x 7,6mm
LED compatibility	3030 / 3535 LED
IP & IK Rating	IP65 & IK08
Application	Street Light
Gasket Material	Silicon
Light Distribution Type	Type II & Type I



Model	OPLLS0084C
LED	28 in 1
Material	PC
Operating Temperature	-40ºC to +120ºC
Dimensions (LxWxH)	100 x 100 x 7,6mm
LED compatibility	3030 / 3535 LED
IP & IK Rating	IP65 & IK08
Application	Street Light
Gasket Material	Silicon
Light Distribution Type	Type II



Model	OPLLS0114C
LED	8 in 1
Material	PC
Operating Temperature	-40ºC to +120ºC
Dimensions (LxWxH)	109 x97 x 8,7mm
LED compatibility	5050 LED
IP & IK Rating	IP65 & IK08
Application	Street Light
Gasket Material	Silicon
Light Distribution Type	Type I

ELEKTRONİK

虹谱光色
HOPOOCOLOR



Işık Ölçüm Ekipmanları Light Measurment Equipments

HPCS6500 SPECTRORADIOMETER SYSTEM

Yüksek hassasiyetli spektrometre, DC güç kaynağı, AC güç kaynağı, Dijital güç ölçeri tek bir cihazda birleştiren sistem, bağımsız olarak da bilgisayar yazılımına bağlanabilir.

The system integrating high-precision spectrometer, DC power supply, AC power supply, Digital power meter in one device, use independently also can connect to PC software.



HPCS6500 High Precision Spectroradiometer	
Wave Range: 380-780 Customized (200-1100nm)	CCT Range: 1.000 - 100.000K
FWHM: 2nm	Chromaticity Coordinates Accuracy: ±0.001
Integration Time: 10μs-10s	(Under standard A source)

HPCS6500 High Precision DC Power Supply	
Voltage Output Range: 0-60V	Current output range : 0-5.0A
Voltage Measurment Accuracy: ± 0.02% +5mV	Current Measurment Accuracy: ± 0.05% +5mA
Voltage Resolution: 0.01V	Current Resolution: 0.01A

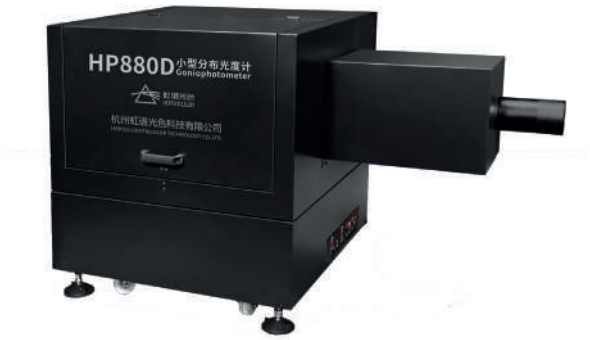
HPCS6500 High precision AC power supply	
Voltage Output Range: 0V ~ 300V	Max. Output Current: 4.6A
Frequency Output Range: 45Hz ~ 65Hz	Harmonic Distortion: ≥2%
Max. Output Power: 1KVA	

HPCS6500 Digital Power Meter		
Measuring Range	3.0V - 300V	0.005 - 20.0A
Measuring Accuarcy	0.4%+ 0.01%+1	
Harmonic Function	2 - 50	

HP880D MINI GONIOPHOTOMETER WITH DARK ROOM

HP880D, küçük LED lambanın ve tek bir yüksek güçlü LED'in fotometri parametrelerini ölçmek için kullanılır. Karanlık oda ve açıklık tasarımı, karanlık oda desteği olmadan fotometrik parametrelerin ölçülmesini mümkün kılar. Çözüm, CIE127 ve EIC61341 gereksinimlerini karşılar.

HP880D is employed to measure the photometry parameters of small LED lamp and single high power LED. The dark chamber and aperture design make it possible to measure the photometric parameters without the dark room support. The solution meets CIE127 and EIC61341 requirements.



Measuring Range	0.001~ 20000 lx
Angular Range	-180º ~ +180º
Angle Measurment Accuracy	± 0.1º
Dimensions	1m x 1m x 1m
Max. Size of Measured Lamp	Ø400x130mm
Test Dİstance	1m

HPG 1800 - HPG 1900 GONIOPHOTOMETER

CIE, IESNA ve ulusal standartların gerekliliklerine göre, mekansal ışık yoğunluğu dağılımının yanı sıra iç mekan spot ışığının çeşitli parlaklık parametresini test etmek için kullanılır, Çift kollu veya tek kollu versiyonları vardır.

According to the requirements of CIE, IESNA and national standards, it is used to test the spatial light intensity distribution as well as variety luminosity parameter. It can work either with double arm or single arm.



HPG 1800



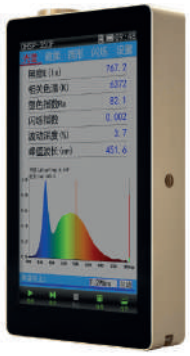
HPG 1900

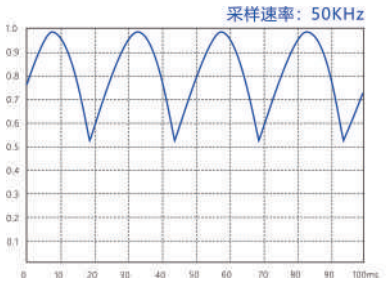
Vertical Axis Rotaion Range	-180º ~ +180º / 0º ~ 360º
Horizontal Axis Rotaion Range	-180º ~ +180º / 0º ~ 360º
Angular Accuracy	0.1º
Maximum test distance	2 meters to 30 meters
Resolution	0.01
The lamp power supply measurment 4 line system	2 10A / 2 2A
Lenght of turntable control line and lamp power supply line	6
V(λ) correction accuracy	CIE standard level (f1' <0.03)
Illumination measurement range	0.001 lx to 200 klx, 5 automatic ranges
V(λ) correction accuracy	CIE standard level (f1' <0.03)

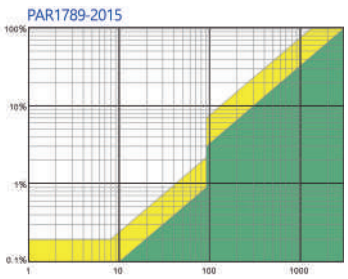
OHSP350F SPECTRAL FLICKING COLORIMETER

OHSP350F (Flicker model),flicker testi işlevi, 50Hz yüksek hızlı örnekleme içerir, IEEE PAR1789-2015 standardını karşılar.

OHSP350F (Flicker model) include flicker test function, 50Hz high speed sampling, it meet IEEE PAR1789-2015 standard.





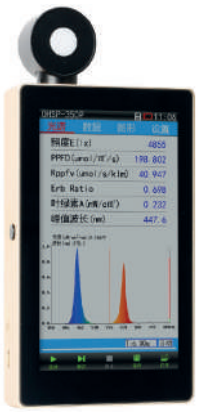


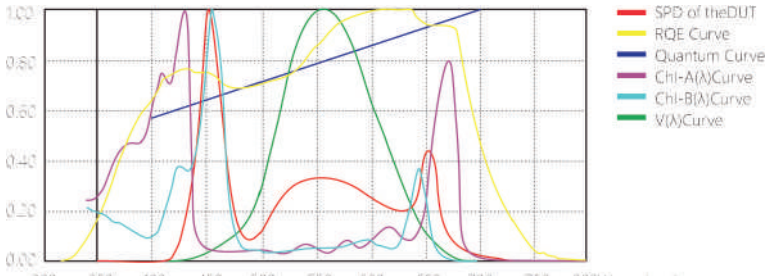
OHSP350F 380 - 780nm	
Flicker frequency (Hz)	Modulation depth (%)
Flicker percent (%)	CCT (K)
Flicker index	IEEE PAR1789-2015

OHSP350P PLANT LIGHT ANALYZER

OHSP350P (Grow light model), Yetiştirme Işıkları spektrum analizi için özel olarak tasarlanmıştır ve ışık analizinde yaygın olarak kullanılır.

OHSP350P (Grow light model) is specially designed for Grow Light spectrum analysis and widely used in light analysis.





OHSP350P 350 - 800nm	
PPFD (umol / m² / s)	YPFD (umol / m² / s)
PAR (mW / cm²)	Ech-A (mW / cm²)
Kppfv (umol / s / klm)	Ech-B (mW / cm²)

TEKNOLOJİ

Yüksek verimli ve ihtiyaca özel tasarımlı LED modüller.

LED Modül ürün portföyümüz, iç mekan aydınlatmasından dış mekan aydınlatmasına kadar çok çeşitli LED PCB modellerini kapsamaktadır. Her uygulamanın kaplaması, lehim maskesi renkleri ve tolerans beklentileri için özel gereksinimleri vardır. Bu nedenle, PCB spesifikasyonları için uygulama alanlarına göre birçok seçenek sunuyoruz.

LED Modüller LED Modules

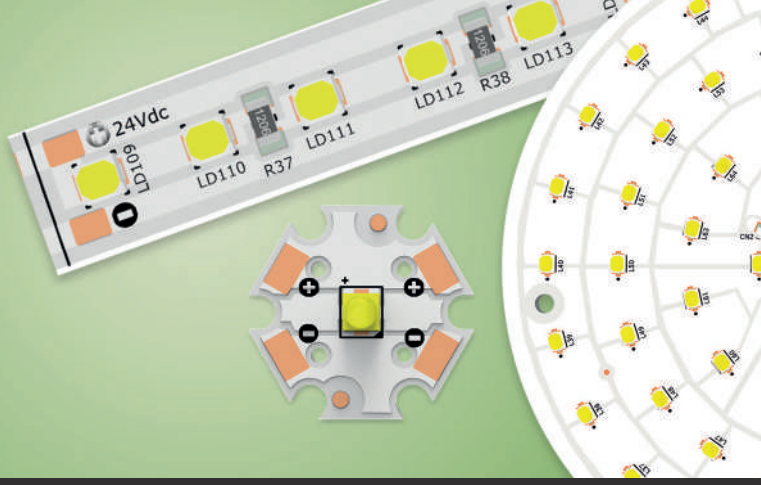
Lineer Modüller Linear Modules

Sayfa/Page 60-72

Notlar *Notes*	Modül Kod / *Module Code*	LED	Malzeme *Material*	Yol *Path*	W/m	W/pcs.	Sayfa *Page*
24VDC 120Led/mt.	MD-4087-LN10*1000-2835-06S20P-L0120-CVX-C00	LM281BA+	Alu 1mm	24VDC	28W (60mA/Led)	28W (60mA/Led)	60
	MD-4087-LN10*1000-2835-06S20P-L0120-CVX-C00	SEOUL	Alu 1mm	24VDC	28W (60mA/Led)	28W (60mA/Led)	60
12VDC 60Led/mt.	MD-4087-LN10*1000-2835-03S20P-L060-CVX-C00	LM281BA+SA	Alu 1mm	12VDC	14W (60mA/Led)	14W (60mA/Led)	61
	MD-4087-LN10*1000-2835-03S20P-L060-CVX-C00	SEOUL	Alu 1mm	12VDC	14W (60mA/Led)	14W (60mA/Led)	61
12VDC 120Led/mt.	MD-4087-LN10*1000-2835-03S40P-L0120-CVX-C00	LM281BA+	Alu 1mm	12VDC	28W (60mA/Led)	28W (60mA/Led)	62
	MD-4087-LN10*1000-2835-03S40P-L0120-CVX-C00	SEOUL	Alu 1mm	12VDC	28W (60mA/Led)	28W (60mA/Led)	62
24VDC 60Led/mt.	MD-4087-LN16*500-2835-06S05P-L030-CVX-C00	LM281BA+	CEM1	24VDC	14W (60mA/Led)	7W (60mA/Led)	63
	MD-4087-LN16*500-2835-06S05P-L030-CVX-C00	LM281B+SA	CEM1	24VDC	14W (60mA/Led)	7W (60mA/Led)	63
	MD-4087-LN16*500-2835-06S05P-L030-CVX-C00	LM281B+SE	CEM1	24VDC	14W (60mA/Led)	7W (60mA/Led)	63
	MD-4087-LN16*500-2835-06S05P-L030-CVX-C00	LM281BA+	FR4	24VDC	14W (60mA/Led)	7W (60mA/Led)	63
	MD-4087-LN16*500-2835-06S05P-L030-CVX-C00	LM281B+SA	FR4	24VDC	14W (60mA/Led)	7W (60mA/Led)	63
	MD-4087-LN16*500-2835-06S05P-L030-CVX-C00	LM281B+SE	FR4	24VDC	14W (60mA/Led)	7W (60mA/Led)	63
24VDC 70Led/mt.	MD-4087-LN10,5*1000-2835-07S10P-L070-CVX-C00	LM281BA+	Alu 1mm	24VDC	14W (60mA/Led)	14W (60mA/Led)	64
	MD-4087-LN10,5*1000-2835-07S10P-L070-CVX-C00	SEOUL	Alu 1mm	24VDC	14W (60mA/Led)	14W (60mA/Led)	64
Constant Current 40Led/mt.	MD-4087-LN17*300-3030-6S2P-L012--CCX-C00-V1	LM302Z+	Alu	6s/2p	44W (350mA)	13,2W (350mA)	65
	MD-4087-LN17*300-3030-6S2P-L012--CCX-C00-V2	LM302Z+	Alu	6s/2p	44W (350mA)	13,2W (350mA)	66
	MD-4087-LN17*300-3525-12S1P-L012--CCX-C00	CREE XTE	Alu	12s/1p	120W (1050mA)	36,1W (1050mA)	67
	MD-4087-LN17*300-3525-12S1P-L012--CCX-C00	LH351B	Alu	12s/1p	120W (1050mA)	36,1W (1050mA)	67
	MD-4087-LN17*300-3525-12S1P-L012--CCX-C00	LH351C	Alu	12s/1p	120W (1050mA)	36,1W (1050mA)	67
Constant Current 60Led/mt.	MD-4087-LN16*500-2835-10S03P-L030-CCX-C04	LM281B+SA	CEM1	10s/3p	20,7W (350mA)	10,4W (350mA)	68
	MD-4087-LN16*500-2835-10S03P-L030-CCX-C04	LM281B+SE	CEM1	10s/3p	20,9W (350mA)	10,5W (350mA)	68
	MD-4087-LN16*500-2835-10S03P-L030-CCX-C04	LM281B+SA	FR4	10s/3p	20,7W (350mA)	10,4W (350mA)	68
	MD-4087-LN16*500-2835-10S03P-L030-CCX-C04	LM281B+SE	FR4	10s/3p	20,9W (350mA)	10,5W (350mA)	68
Constant Current 85Led/mt.	MD-4087-LN16*560-2835-12S4P-L048-CCX-C04	LM281B+SA	CEM1	12s/4p	21,6W (350mA)	12,1W (350mA)	69
	MD-4087-LN16*560-2835-12S4P-L048-CCX-C04	LM281B+SE	CEM1	12s/4p	21,6W (350mA)	12,1W (350mA)	69
	MD-4087-LN16*560-2835-12S4P-L048-CCX-C04	LM281B+SA	FR4	12s/4p	21,6W (350mA)	12,1W (350mA)	69
	MD-4087-LN16*560-2835-12S4P-L048-CCX-C04	LM281B+SE	FR4	12s/4p	21,6W (350mA)	12,1W (350mA)	69
Constant Current 180Led /mt.	MD-4087-LN20*594-2835-18S6P-L108-CCX-C04 V2	LM281BA+	CEM1	18s/6p	30,8W (350mA)	18,5W (350mA)	70
	MD-4087-LN20*594-2835-18S6P-L108-CCX-C04 V2	LM281B+SA	CEM1	18s/6p	30,8W (350mA)	18,5W (350mA)	70
	MD-4087-LN20*594-2835-18S6P-L108-CCX-C04 V2	LM281B+SE	CEM1	18s/6p	30,8W (350mA)	18,5W (350mA)	70
Module with 2x6 IP Lens	MD-4087-LN45*146-3535-12S1P-L012-CCX-C00	CREE XTE	Alu	12s/1p	120W (1050mA)	36,1W (1050mA)	71
	MD-4087-LN45*146-3535-12S1P-L012-CCX-C00	LH351B	Alu	12s/1p	120W (1050mA)	36,1W (1050mA)	71
	MD-4087-LN45*146-3535-12S1P-L012-CCX-C00	LH351C	Alu	12s/1p	120W (1050mA)	36,1W (1050mA)	71
Module with 4x4 Lenses	MD-4087-LN51*170-2835-6S8P-L048-CCX-C01	LM281B+SE	Alu	6s/8p	-	23,6W (1400mA)	72
	MD-4087-LN51*170-3030-6S8P-L048-CCX-C01	LM302Z+	Alu	6s/8p	-	52,6W (1400mA)	72

High efficient and custom designed LED modules.

Our product portfolio covers a wide range of LED PCB models, from indoor to outdoor lighting. Every application has its particular demands for laminates, solder mask colours, and tolerance expectations; thus, we offer many options for PCB specifications.



LED Modüller LED Modules

Kare Modüller Square Modules

Sayfa/Page 73-78

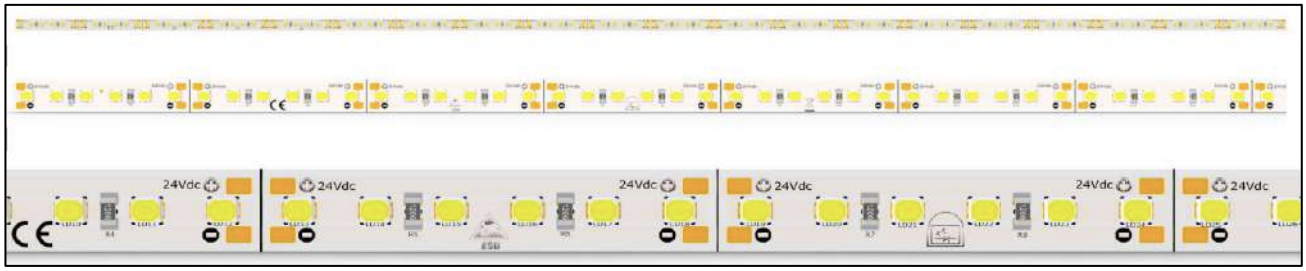
Notes	Module Code	LED	Material	Path	W/m	W/pcs.	Sayfa Page
Module with 2x6 IP Lens	MD-4087-SQ45*146-5050-12S1P-L012-CCX-C02	LH508A+	Alu	12s/1p	-	50,8W (700mA)	73
	MD-4087-SQ45*146-5050-6S2P-L012-CCX-C02	LH502C	Alu	6s/2p	-	50,8W (1400mA)	73
Module with 16in1 IP Lens	MD-4087-LN43*85-2835-4S4P-L016-CCX-C01	LM281B+SE	Alu	4s/4p	-	8,1W (700mA)	74
	MD-4087-LN43*85-3030-4S4P-L016-CCX-C01	LM302Z+	Alu	4s/4p	-	17,8W (700mA)	74
Module with 3x11 Lens	MD-4087-SQ55*280-2835-11S03P-L033-CCX-C02	LM281B+SE	CEM1	11s/3p	-	11,6W (350mA)	75
	MD-4087-SQ55*280-3030-11S03P-L033-CCX-C02	LM302Z+	CEM1	11s/3p	-	23,1W (350mA)	75
	MD-4087-SQ55*280-2835-11S03P-L033-CCX-C02	LM281B+SE	Alu	11s/3p	-	11,6W (350mA)	75
	MD-4087-SQ55*280-3030-11S03P-L033-CCX-C02	LM302Z+	Alu	11s/3p	-	23,1W (350mA)	75
Module with 4x3 Lenses	MD-4087-SQ124*202-3030-24S04P-L096-CCX-C04	LM302Z+	Alu	24s/4p	-	105,1W (700mA)	76
	MD-4087-SQ223*204,5-3030-24S08P-L192-CCX-C01	LM302Z+	Alu	24s/8p	-	210,3W (700mA)	77
	MD-4087-SQ223*204,5-3030-48S04P-L192-CCX-C01	LM302Z+	Alu	48s/4p	-	210,3W (700mA)	77
	MD-4087-SQ172,5*154-3030-27S04P-L108-CCX-C01	LM302Z+	Alu	27s/4p	-	118,3W (700mA)	78

Yuvarlak Modüller Round Modules

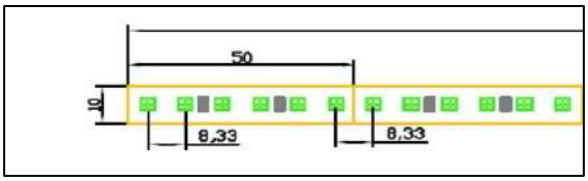
Sayfa/Page 79-81

Notes	Module Code	LED	Material	Path	W/m	W/pcs.	Sayfa Page
Star PCB	MD-4087-ST20*20-3535-1S1P-L001-CCX-C00	CREE XTE	Alu	1s/1p	-	3,3W (1050mA)	79
	MD-4087-ST20*20-3535-1S1P-L001-CCX-C00	LH351B	Alu	1s/1p	-	3,3W (1050mA)	79
	MD-4087-ST20*20-3535-1S1P-L001-CCX-C00	LH351C	Alu	1s/1p	-	3,3W (1050mA)	79
Downlight	MD-4087-RD90*90-2835-13S3P-L039-CCX-C02	LM281B+SA	Alu 1mm	13s/3p	-	19,5W (500mA)	80
	MD-4087-RD90*90-2835-13S3P-L039-CCX-C02	LM281B+SE	Alu 1mm	13s/3p	-	19,5W (500mA)	80
	MD-4087-RD90*90-3030-13S3P-L039-CCX-C02	LM302Z+	Alu 1mm	13s/3p	-	39,6W (500mA)	80
Downlight	MD-4087-RD130*130-2835-11S6P-L066-CCX-C02	LM281B+SA	Alu 1mm	11s/6p		22,8W (700mA)	81
	MD-4087-RD130*130-2835-11S6P-L066-CCX-C02	LM281B+SE	Alu 1mm	11s/6p		30,2W (900mA)	81
	MD-4087-RD130*130-3030-11S6P-L066-CCX-C02	LM302Z+	Alu 1mm	11s/6p		71,1W (1050mA)	81

4087L-LN06S20P-L120-C00-100L1A2O18-10X1000-24VDC





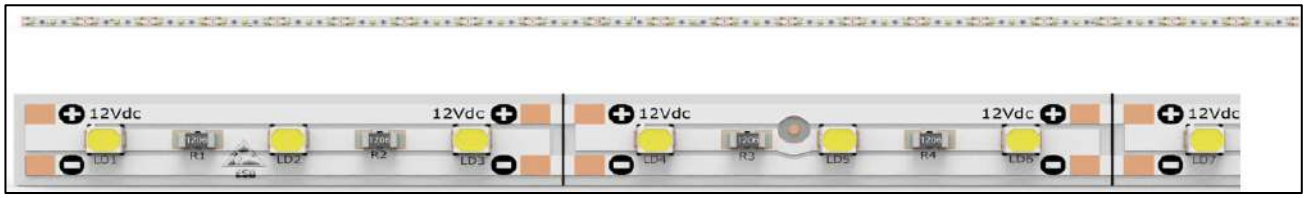


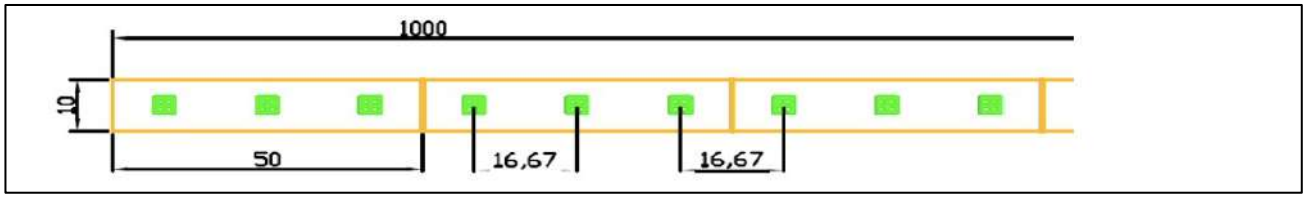
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087L-LN06S20P-L120-C00-100L1A2O18-10X1000-24VDC	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	20
Storage Temperature (°C)	-40 ~ +55	Series	6
Thermal Conductivity (W/m-K)	1>	LED Quantity	120

LED	***SAMSUNG LM281B+SA***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	12		
Module Operating Current (mA)	600	900	1200
Branch Operating Current (mA)	30	45	60
Module Power (W)	14,40	21,60	28,80
Module Light Output (lm)	1722	2449	3120
Module Efficiency (lm/W)	165	152	142

LED	***SAMSUNG LM281B+SE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	12		
Module Operating Current (mA)	600	900	1200
Branch Operating Current (mA)	30	45	60
Module Power (W)	14,40	21,60	28,80
Module Light Output (lm)	1923	2831	3703
Module Efficiency (lm/W)	190	184	178

4087N-LN03S020P-L060-C00-100L1A1O18-10X1000-12VDC



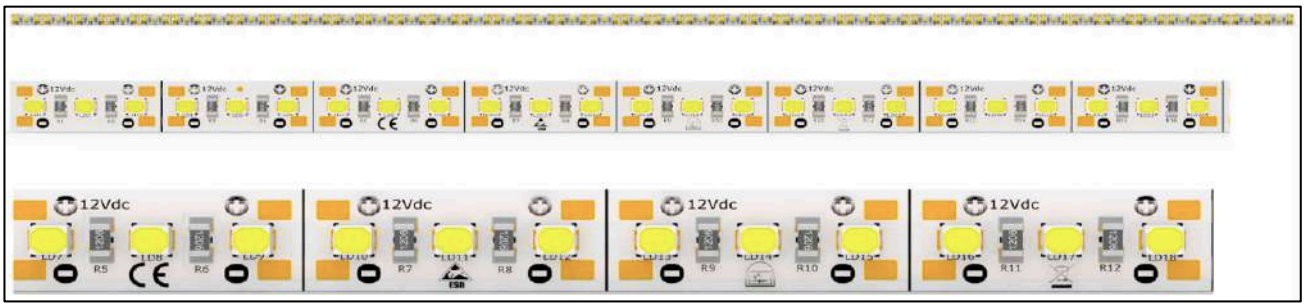


Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN03S020P-L060-C00-100L1A1O18-10X1000-12VDC	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	20
Storage Temperature (°C)	-40 ~ +55	Series	3
Thermal Conductivity (W/m-K)	1>	LED Quantity	60

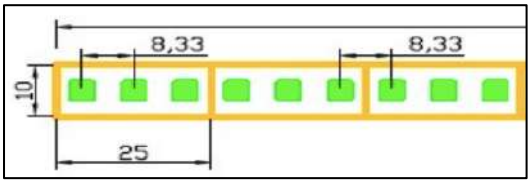
LED	***SAMSUNG LM281B+SA***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	12		
Module Operating Current (mA)	600	900	1200
Branch Operating Current (mA)	30	45	60
Module Power (W)	7,20	10,80	14,40
Module Light Output (lm)	861	1225	1560
Module Efficiency (lm/W)	165	152	142

LED	***SAMSUNG LM281B+SE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	12		
Module Operating Current (mA)	600	900	1200
Branch Operating Current (mA)	30	45	60
Module Power (W)	7,20	10,80	14,40
Module Light Output (lm)	962	1415	1852
Module Efficiency (lm/W)	190	184	178

4087N-LN03S40P-L120-C00-100L1A2O18-10X1000-12VDC





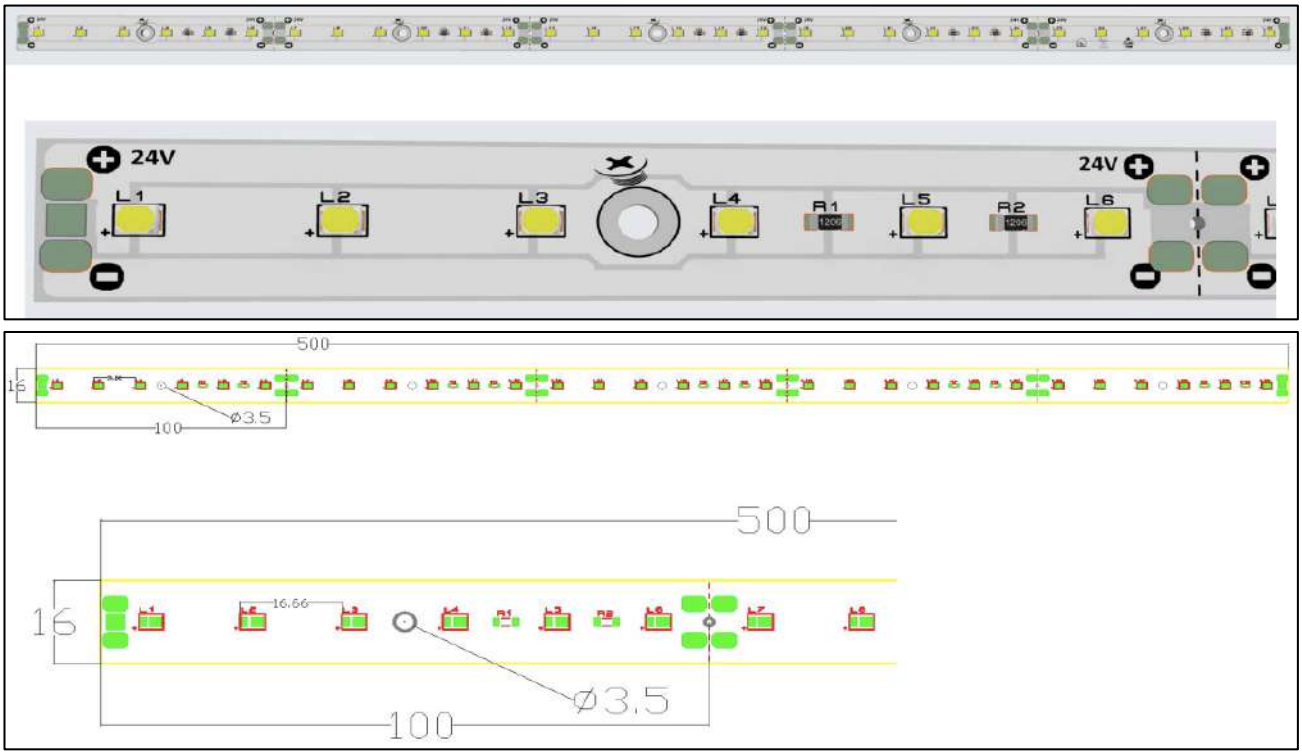


Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN03S40P-L120-C00-100L1A2O18-10X1000-12VDC	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	40
Storage Temperature (°C)	-40 ~ +55	Series	3
Thermal Conductivity (W/m-K)	1>	LED Quantity	120

LED	***SAMSUNG LM281B+SA***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	12		
Module Operating Current (mA)	1200	1750	2500
Branch Operating Current (mA)	29	44	63
Module Power (W)	14,40	21,00	30,00
Module Light Output (lm)	1671	2403	3251
Module Efficiency (lm/W)	166	153	140

LED	***SAMSUNG LM281B+SE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	12		
Module Operating Current (mA)	1200	1750	2500
Branch Operating Current (mA)	29	44	63
Module Power (W)	14,40	21,00	30,00
Module Light Output (lm)	1861	2772	3874
Module Efficiency (lm/W)	191	184	177

4087N-LN06S05P-CXO2-L030-C00-120L1F4O35-16X500-24VDC

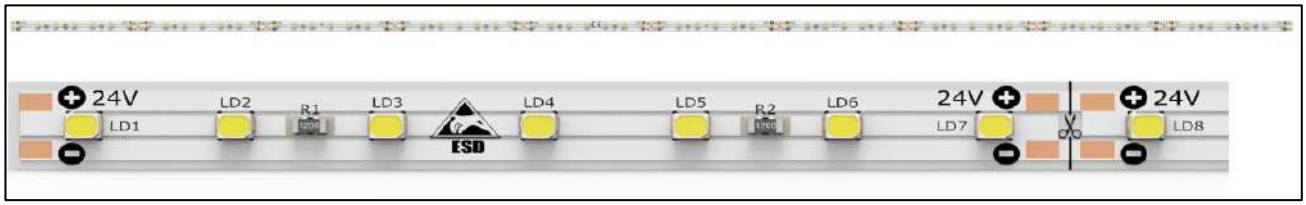


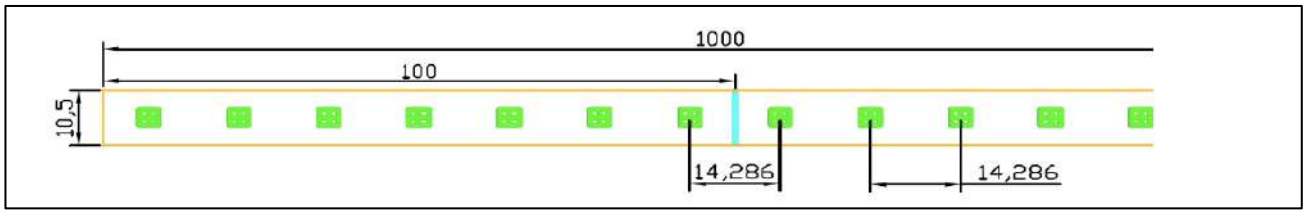
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN06S05P-CXO2-L030-C00-120L1F4O35-16X500-24VDC	**Electrical Connection**	
PCB Material	CEM1		
Operating Temperature (°C)	-40 ~ +85	Parallel	5
Storage Temperature (°C)	-40 ~ +55	Series	6
Thermal Conductivity (W/m-K)	1>	LED Quantity	30

LED	***SAMSUNG LM281BA+***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	24		
Module Operating Current (mA)	150	225	300
Branch Operating Current (mA)	30	45	60
Module Power (W)	3,60	5,40	7,20
Module Light Output (lm)	1722	2449	3120
Module Efficiency (lm/W)	165	152	142

LED	***SAMSUNG LM281B+SE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	24		
Module Operating Current (mA)	150	225	300
Branch Operating Current (mA)	30	45	60
Module Power (W)	3,60	5,40	7,20
Module Light Output (lm)	1923	2831	3703
Module Efficiency (lm/W)	190	184	178

4087N-LN07S010P-L070-C00-100L1A1O18-10,5X1000-24VDC



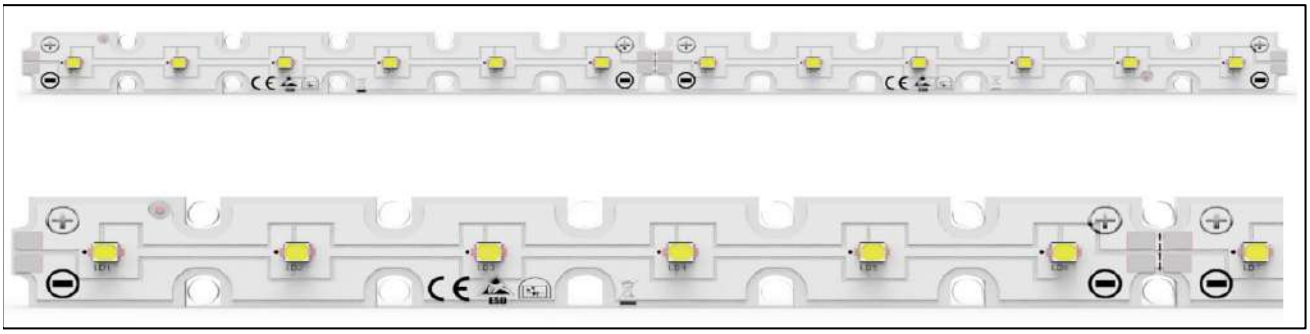


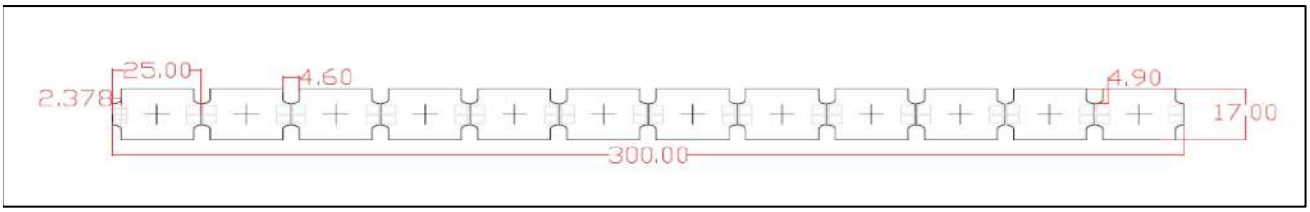
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN07S010P-L070-C00-100L1A1O18-10,5X1000-24VDC	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	10
Storage Temperature (°C)	-40 ~ +55	Series	7
Thermal Conductivity (W/m-K)	1>	LED Quantity	70

LED	***SAMSUNG LM281B+SA***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	12		
Module Operating Current (mA)	300	450	600
Branch Operating Current (mA)	30	45	60
Module Power (W)	7,20	10,80	14,40
Module Light Output (lm)	1005	1429	1820
Module Efficiency (lm/W)	165	152	142

LED	***SAMSUNG LM281B+SE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	12		
Module Operating Current (mA)	300	450	600
Branch Operating Current (mA)	30	45	60
Module Power (W)	7,20	10,80	14,40
Module Light Output (lm)	1122	1651	2160
Module Efficiency (lm/W)	190	184	178

4087N-LN06S02PCC-XXO1-L012-C00-160L1A2H35-17X300 -V1



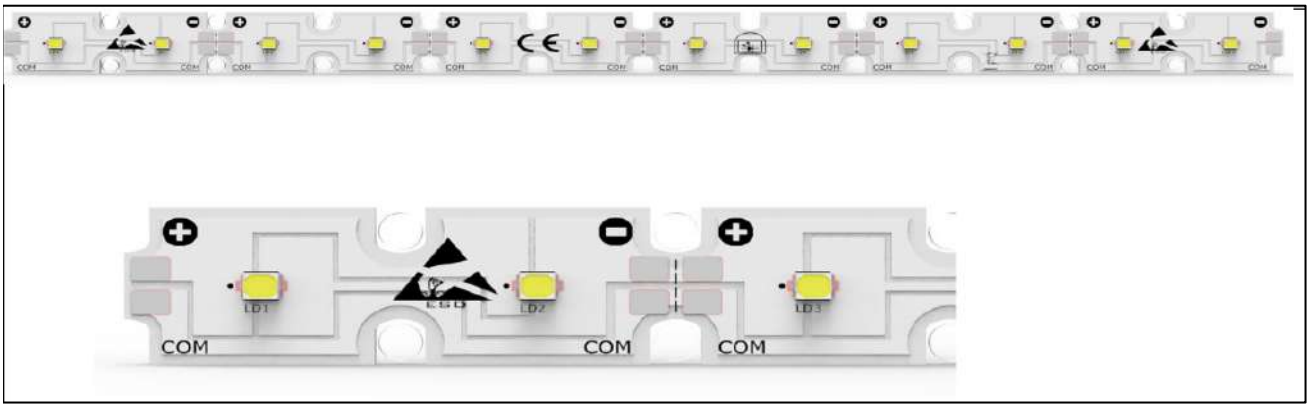


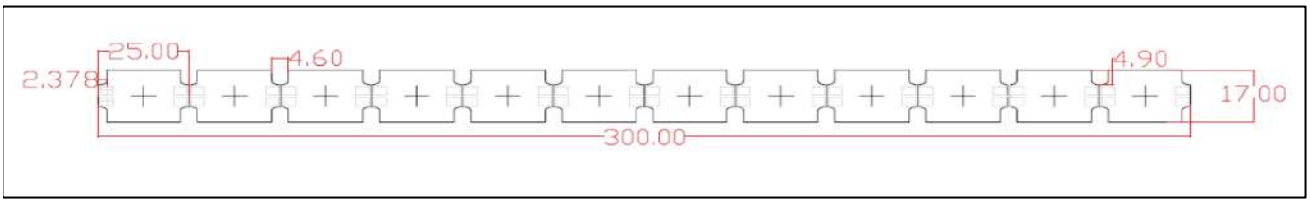
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN06S02PCC-XXO1-L012-C00-160L1A2H35-17X300 -V1	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	2
Storage Temperature (°C)	-40 ~ +55	Series	6
Thermal Conductivity (W/m-K)	1>	LED Quantity	12

LED	***SAMSUNG LM302Z+***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	35,5	36,2	37,6
Module Operating Current (mA)	200	250	350
Branch Operating Current (mA)	100	125	175
Module Power (W)	7,10	9,05	13,16
Module Light Output (lm)	1157	1411	1886
Module Efficiency (lm/W)	163	156	143

LED	***SAMSUNG LM302D***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	35,2	36	37,7
Module Operating Current (mA)	200	250	350
Branch Operating Current (mA)	100	125	175
Module Power (W)	7,04	9,00	13,20
Module Light Output (lm)	1236	1508	2008
Module Efficiency (lm/W)	176	168	152

4087N-LN06S02PCC-XXO1-L012-C00-160L1A2H35-17X300-V2



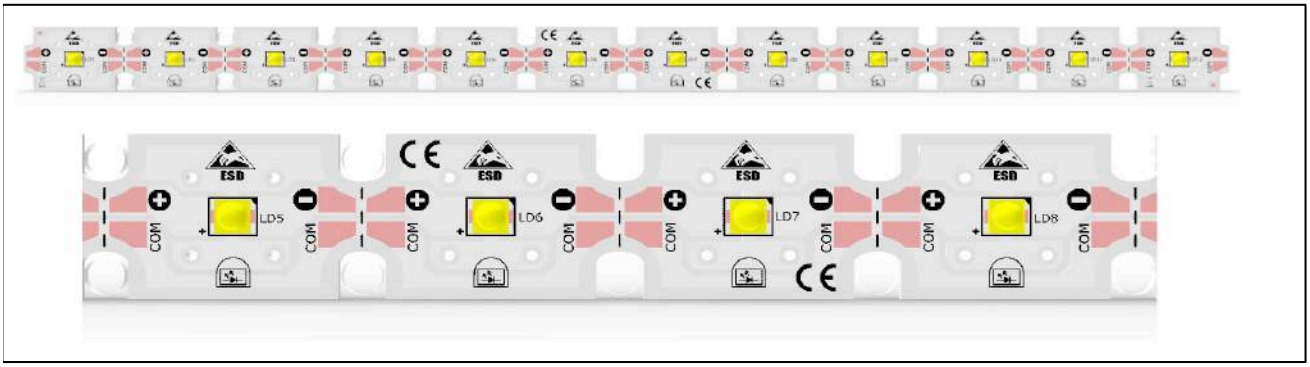


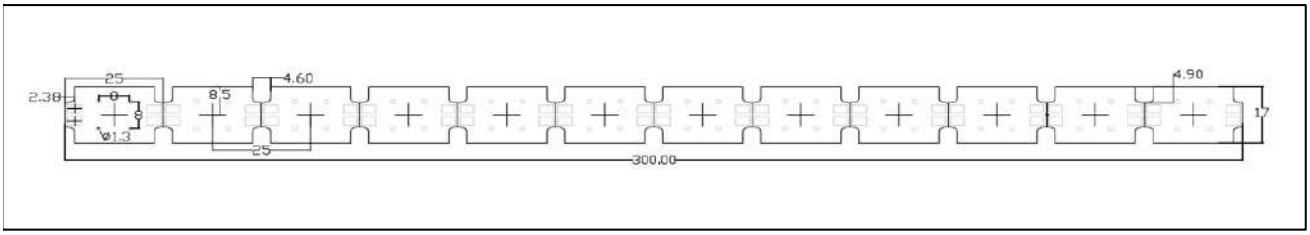
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN06S02PCC-XXO1-L012-C00-160L1A2H35-17X300-V2	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	2
Storage Temperature (°C)	-40 ~ +55	Series	6
Thermal Conductivity (W/m-K)	1>	LED Quantity	12

LED	***SAMSUNG LM281B+SE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	17,8	18	18,4
Module Operating Current (mA)	200	250	350
Branch Operating Current (mA)	100	125	175
Module Power (W)	3,56	4,50	6,44
Module Light Output (lm)	589	718	887
Module Efficiency (lm/W)	165	160	138

LED	***SAMSUNG LM302Z+***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	35,6	36,3	37
Module Operating Current (mA)	250	300	350
Branch Operating Current (mA)	125	150	175
Module Power (W)	8,90	10,89	12,95
Module Light Output (lm)	1411	1653	1886
Module Efficiency (lm/W)	159	152	146

4087N-LN12S01P-XXO1-L012-C00-160L1A2H35-17X300



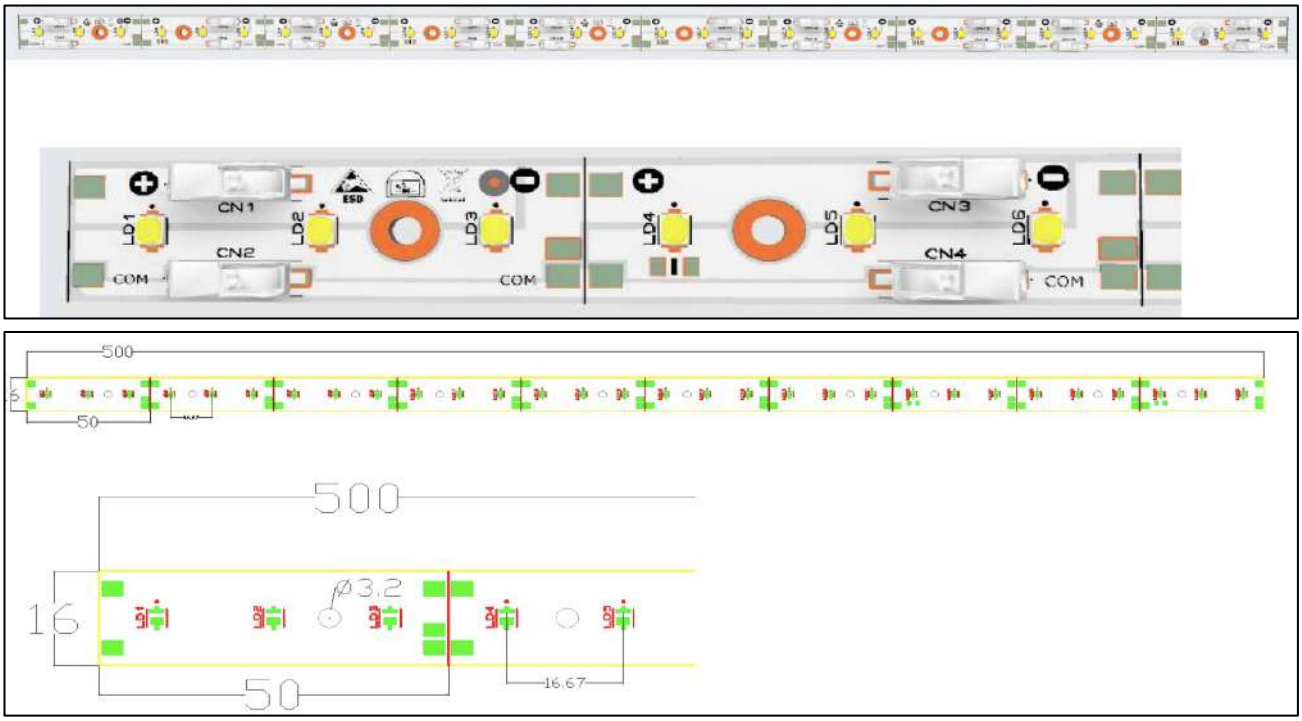


Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN12S01P-XXO1-L012-C00-160L1A2H35-17X300	**Electrical Connection**	
PCB Material	FR4		
Operating Temperature (°C)	-40 ~ +85	Parallel	1
Storage Temperature (°C)	-40 ~ +55	Series	12
Thermal Conductivity (W/m-K)	1>	LED Quantity	12

LED	***SAMSUNG LH351C***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	70+		
Module Operating Voltage (V)	33	34,2	35,3
Module Operating Current (mA)	700	1050	1400
Branch Operating Current (mA)	700	1050	1400
Module Power (W)	23,10	35,91	49,42
Module Light Output (lm)	4560	6385	7900
Module Efficiency (lm/W)	197	178	160

LED	***CREE XTE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	70+		
Module Operating Voltage (V)	34,2	35,6	37
Module Operating Current (mA)	350	700	1050
Branch Operating Current (mA)	350	700	1050
Module Power (W)	11,97	24,92	38,85
Module Light Output (lm)	2052	3592	5130
Module Efficiency (lm/W)	171	144	132

4087N-LN10S03P-XDO2-L030-C20-120L1F4H35-16X500

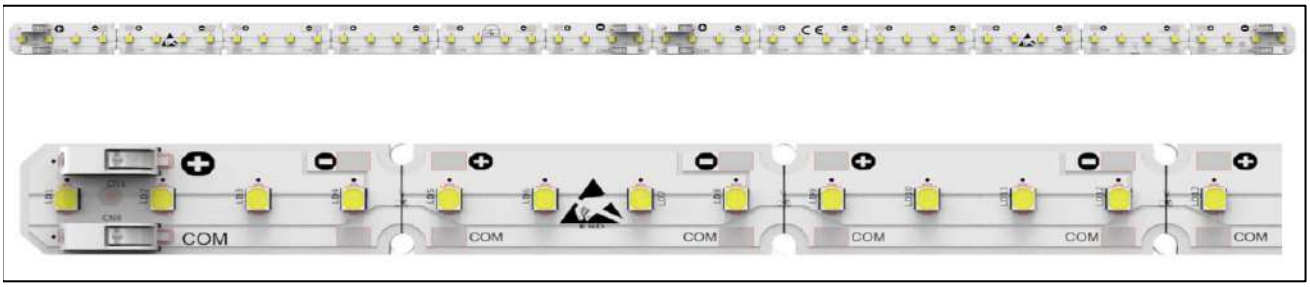


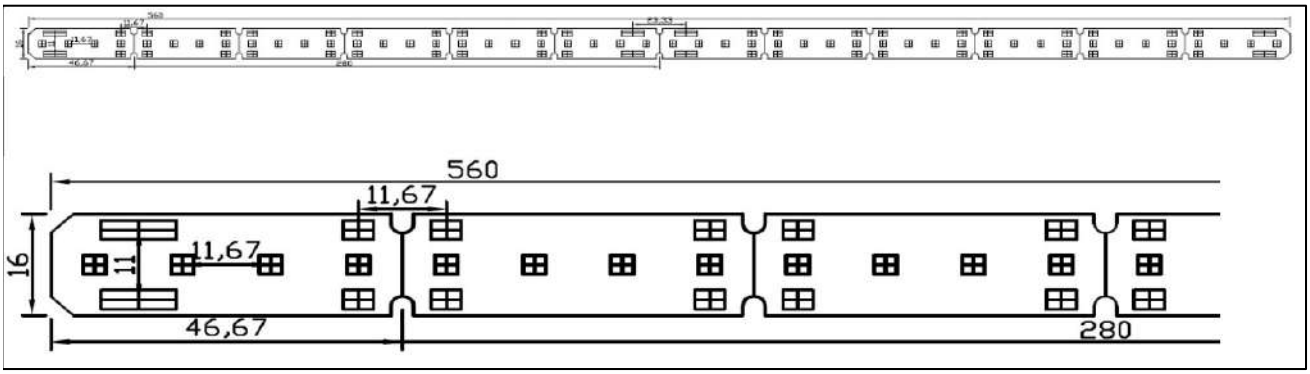
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN10S03P-XDO2-L030-C20-120L1F4H35-16X500	**Electrical Connection**	
PCB Material	FR4		
Operating Temperature (°C)	-40 ~ +85	Parallel	3
Storage Temperature (°C)	-40 ~ +55	Series	10
Thermal Conductivity (W/m-K)	1>	LED Quantity	30

LED	***SAMSUNG LM281B+SA***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	28,1	28,6	29,6
Module Operating Current (mA)	200	250	350
Branch Operating Current (mA)	67	84	117
Module Power (W)	5,62	7,15	10,36
Module Light Output (lm)	951	1158	1527
Module Efficiency (lm/W)	169	162	147

LED	***SAMSUNG LM281B+SE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	29	29,9	30,7
Module Operating Current (mA)	200	350	500
Branch Operating Current (mA)	67	117	167
Module Power (W)	5,80	10,47	15,35
Module Light Output (lm)	1023	1692	2217
Module Efficiency (lm/W)	176	162	144

4087N-LN12S04PCC-XXO1-L048-C08-120L1F4O35-16X560



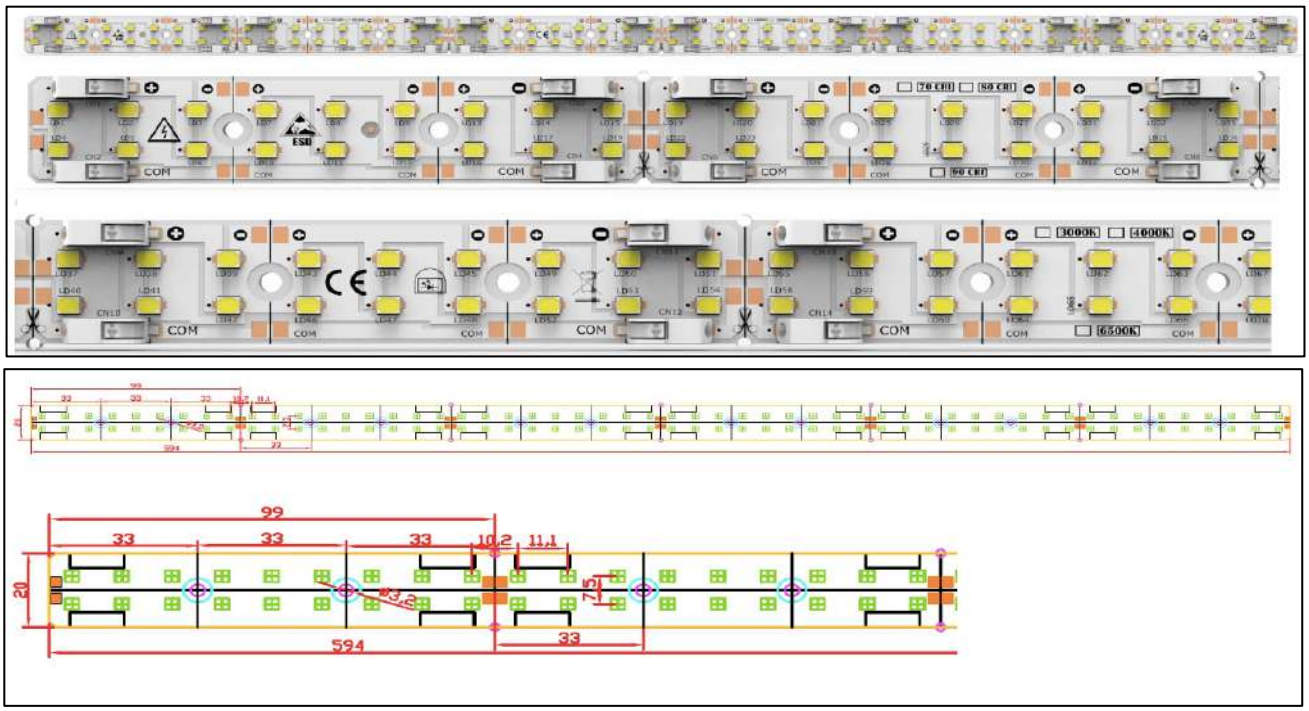


Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN12S04PCC-XXO1-L048-C08-120L1F4O35-16X560	Electrical Connection	
PCB Material	FR4		
Operating Temperature (°C)	-40 ~ +85	Parallel	4
Storage Temperature (°C)	-40 ~ +55	Series	12
Thermal Conductivity (W/m-K)	1>	LED Quantity	48

LED	*SAMSUNG LM281B+SA*		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	33,5	34,4	35,8
Module Operating Current (mA)	250	350	500
Branch Operating Current (mA)	63	88	125
Module Power (W)	8,38	12,04	17,90
Module Light Output (lm)	1440	1925	2578
Module Efficiency (lm/W)	172	160	144

LED	*SAMSUNG LM281B+SE*		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	35,3	36,1	36,8
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	88	125	175
Module Power (W)	12,36	18,05	25,76
Module Light Output (lm)	2102	2870	3547
Module Efficiency (lm/W)	170	159	138

4087N-LN18S06PCC-XXO1-L108P2-C24-160L1C1O35-20X594

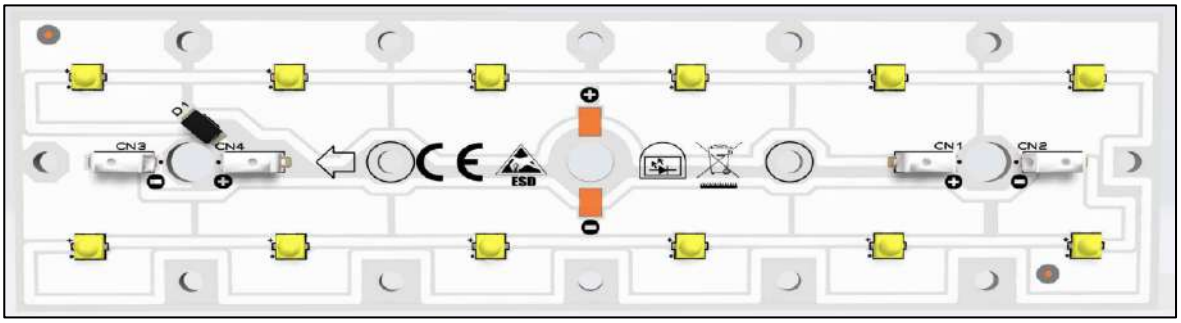


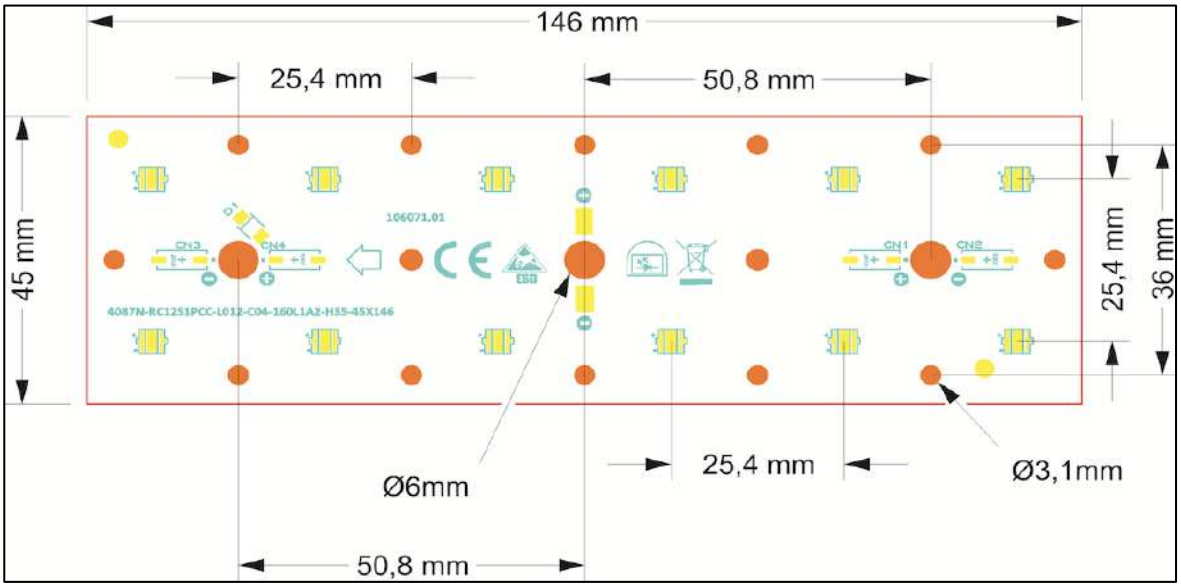
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN18S06PCC-XXO1-L108P2-C24-160L1C1O35-20X594	**Electrical Connection**	
PCB Material	CEM1		
Operating Temperature (°C)	-40 ~ +85	Parallel	6
Storage Temperature (°C)	-40 ~ +55	Series	18
Thermal Conductivity (W/m-K)	1>	LED Quantity	108

LED	***SAMSUNG LM281B+SA***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	51,7	52,4	52,9
Module Operating Current (mA)	250	300	350
Branch Operating Current (mA)	41,7	50	58,3
Module Power (W)	12,93	15,72	18,52
Module Light Output (lm)	2322	2689	3046
Module Efficiency (lm/W)	180	171	165

LED	***SAMSUNG LM281B+SE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	50,2	51,1	52
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	58,3	83,3	116,7
Module Power (W)	17,57	25,55	36,40
Module Light Output (lm)	3229	4536	6091
Module Efficiency (lm/W)	184	178	167

4087N-RC12S1PCC-L012-C04-160L1A2-H35-45X146



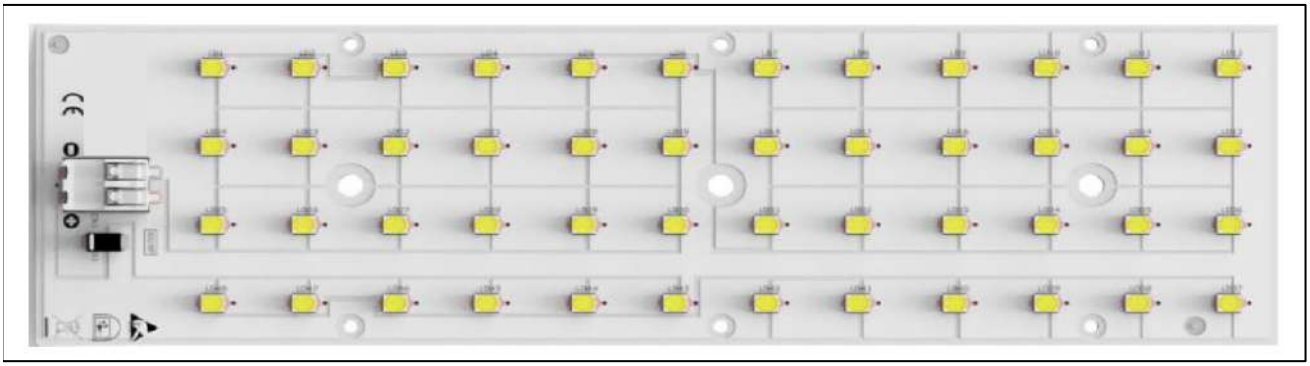


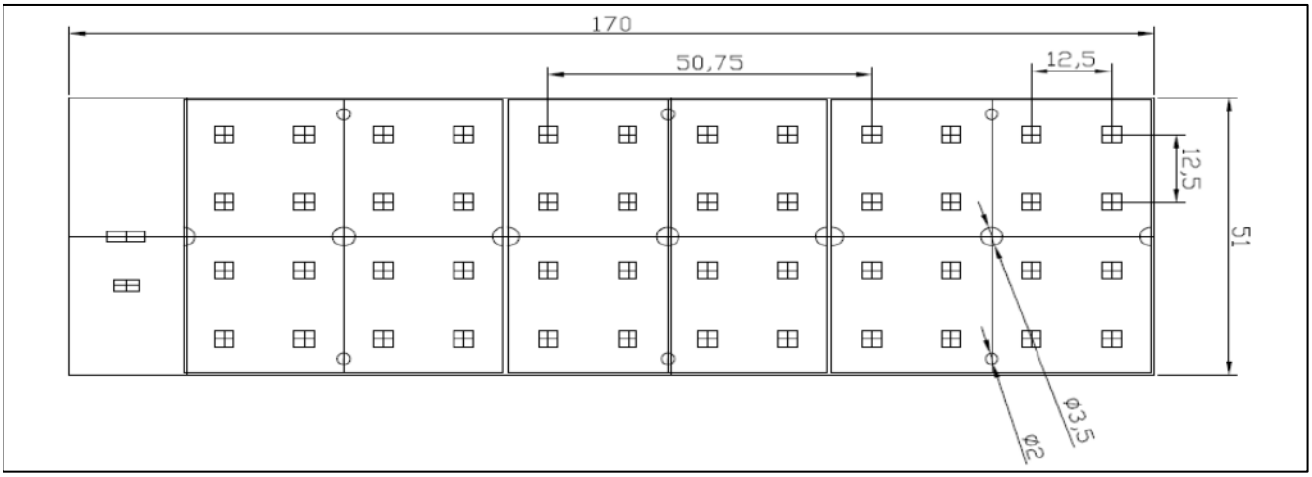
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-RC12S1PCC-L012-C04-160L1A2-H35-45X146	Electrical Connection	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	1
Storage Temperature (°C)	-40 ~ +55	Series	12
Thermal Conductivity (W/m-K)	1>	LED Quantity	12

LED	*SAMSUNG LH351C*		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	70+		
Module Operating Voltage (V)	33	34,2	35,3
Module Operating Current (mA)	700	1050	1400
Branch Operating Current (mA)	700	1050	1400
Module Power (W)	23,10	35,91	49,42
Module Light Output (lm)	4560	6385	7900
Module Efficiency (lm/W)	197	178	160

LED	*CREE XTE*		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	70+		
Module Operating Voltage (V)	34,2	35,6	37
Module Operating Current (mA)	350	700	1050
Branch Operating Current (mA)	350	700	1050
Module Power (W)	11,97	24,92	38,85
Module Light Output (lm)	2052	3592	5130
Module Efficiency (lm/W)	171	144	132

4087N-SQ06S08PCC-XDO1-L048-C01-160L1A2H35-51X170





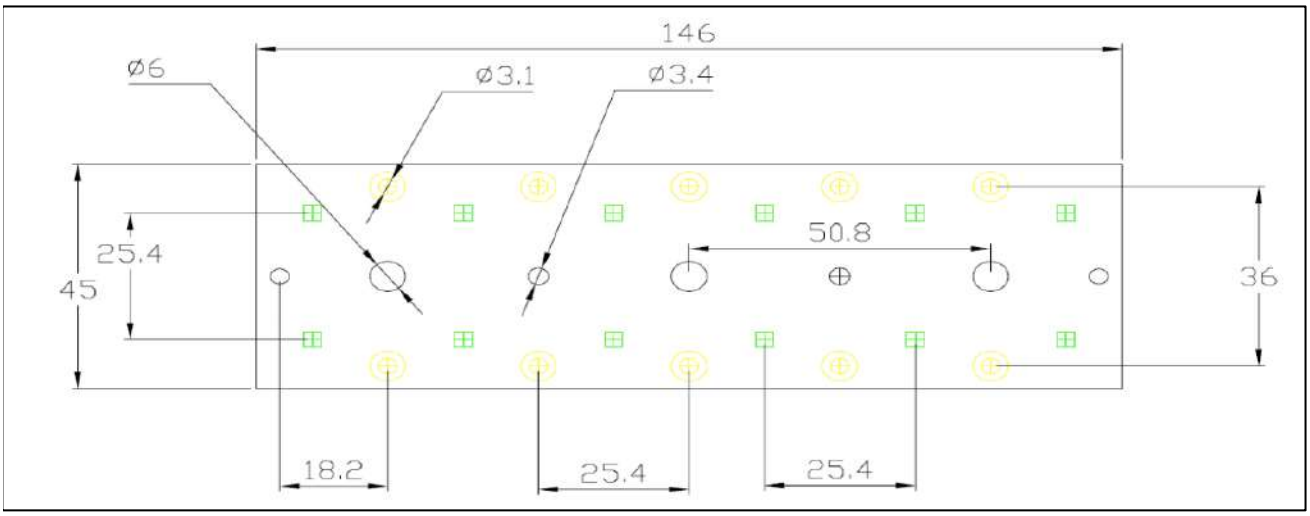
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-SQ06S08PCC-XDO1-L048-C01-160L1A2H35-51X170	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	8
Storage Temperature (°C)	-40 ~ +55	Series	6
Thermal Conductivity (W/m-K)	1>	LED Quantity	48

LED	***SAMSUNG LM302D***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	34,8	36,3	37,7
Module Operating Current (mA)	700	1050	1400
Branch Operating Current (mA)	87,5	131,25	175
Module Power (W)	24,36	38,12	52,78
Module Light Output (lm)	4402	6326	8030
Module Efficiency (lm/W)	181	166	152

LED	***SAMSUNG LM281B+SE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	17,1	17,5	17,8
Module Operating Current (mA)	700	1050	1400
Branch Operating Current (mA)	87,5	131,25	175
Module Power (W)	11,97	18,38	24,92
Module Light Output (lm)	2102	3010	3547
Module Efficiency (lm/W)	176	164	142

4087N-LN10S03P-XDO2-L030-C20-120L1F4H35-16X500

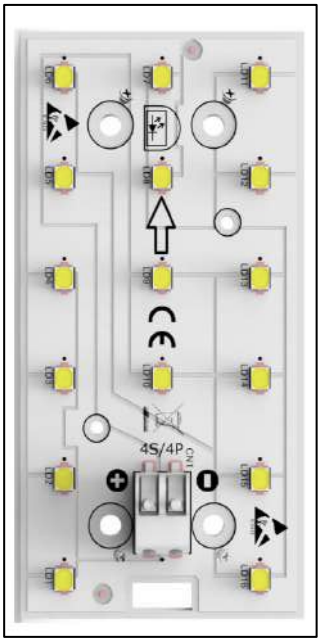


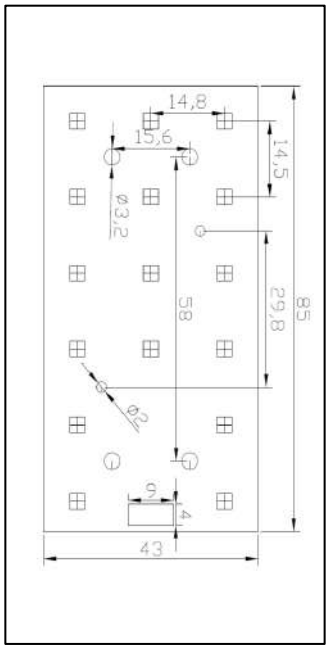


Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-LN12S01P-XDO1-L012-C00-160L1A2H35-45X146	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	1
Storage Temperature (°C)	-40 ~ +55	Series	12
Thermal Conductivity (W/m-K)	1>	LED Quantity	12

LED	***SAMSUNG LH502C***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	70+		
Module Operating Voltage (V)	70,4	72,5	75
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	350	500	700
Module Power (W)	24,64	36,25	52,50
Module Light Output (lm)	4937	6802	9028
Module Efficiency (lm/W)	200	188	172

4087N-SQ04S04PCC-XXO1-L016-C01-160L1A2H35-43X85



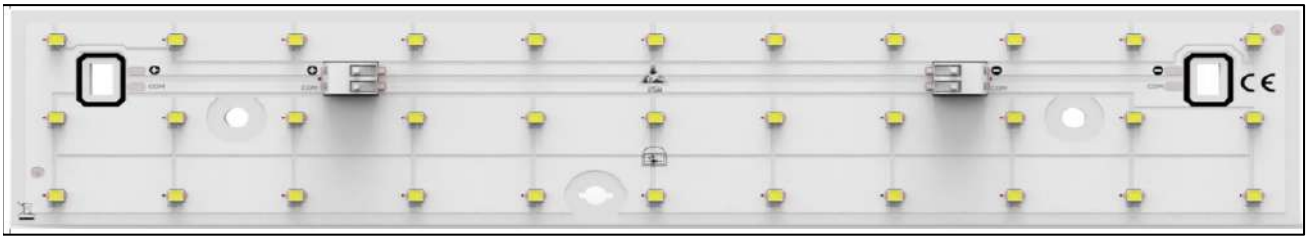


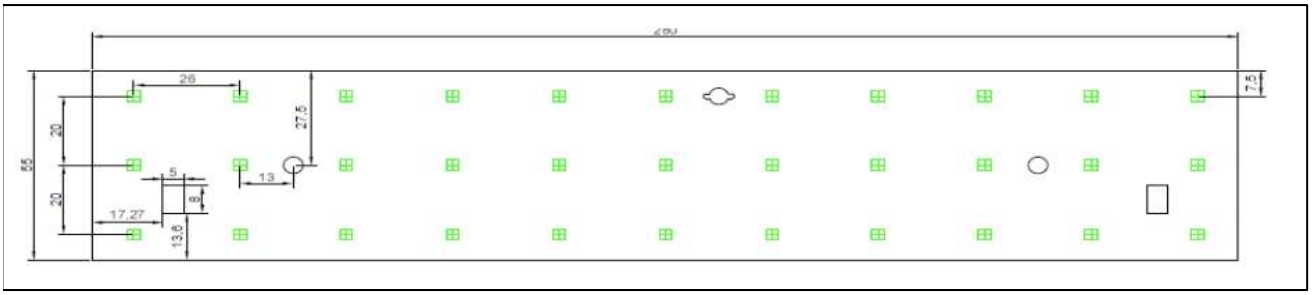
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-SQ04S04PCC-XXO1-L016-C01-160L1A2H35-43X85	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	4
Storage Temperature (°C)	-40 ~ +55	Series	4
Thermal Conductivity (W/m-K)	1>	LED Quantity	16

LED	***SAMSUNG LM302D***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	23,2	24	25,1
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	87,5	125	175
Module Power (W)	8,12	12,00	17,57
Module Light Output (lm)	1467	2011	2677
Module Efficiency (lm/W)	181	168	152

LED	***SAMSUNG LM281B+SE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	11,4	11,6	11,8
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	87,5	125	175
Module Power (W)	3,99	5,80	8,26
Module Light Output (lm)	701	957	1182
Module Efficiency (lm/W)	176	165	143

4087N-SQ11S03P-XXO1-L033-C02-160L1C1H35-55X280



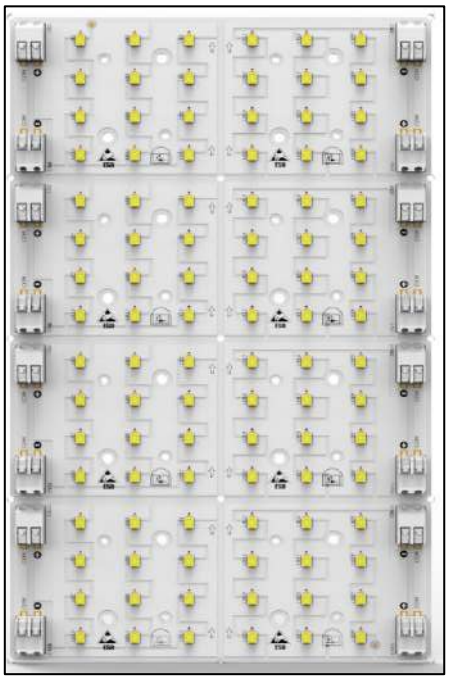


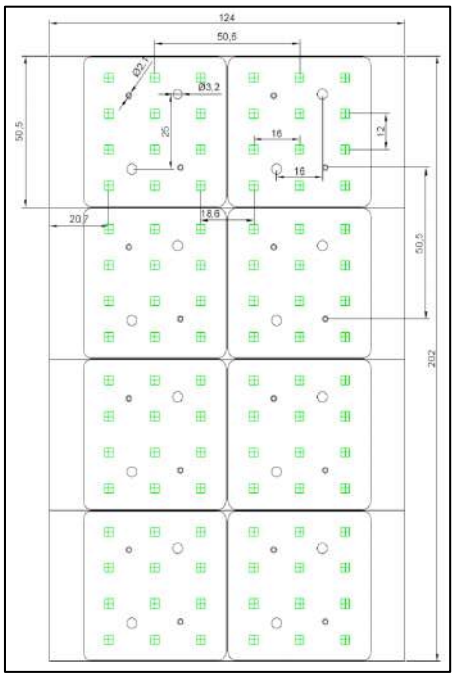
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-SQ11S03P-XXO1-L033-C02-160L1C1H35-55X280	**Electrical Connection**	
PCB Material	CEM1		
Operating Temperature (°C)	-40 ~ +85	Parallel	3
Storage Temperature (°C)	-40 ~ +55	Series	11
Thermal Conductivity (W/m-K)	1>	LED Quantity	33

LED	***SAMSUNG LM302Z+***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	64	65,9	68,4
Module Operating Current (mA)	250	350	500
Branch Operating Current (mA)	83,33	116,67	166,67
Module Power (W)	16,00	23,07	34,20
Module Light Output (lm)	2719	3660	4983
Module Efficiency (lm/W)	170	159	146

LED	***SAMSUNG LM302D***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	63,6	65,7	68,7
Module Operating Current (mA)	250	350	500
Branch Operating Current (mA)	83,33	116,67	166,67
Module Power (W)	15,90	23,00	34,35
Module Light Output (lm)	2901	3911	5313
Module Efficiency (lm/W)	182	170	155

4087N-SQ24S04P-XXO1-L096-C16-160L1A2H35-124X202



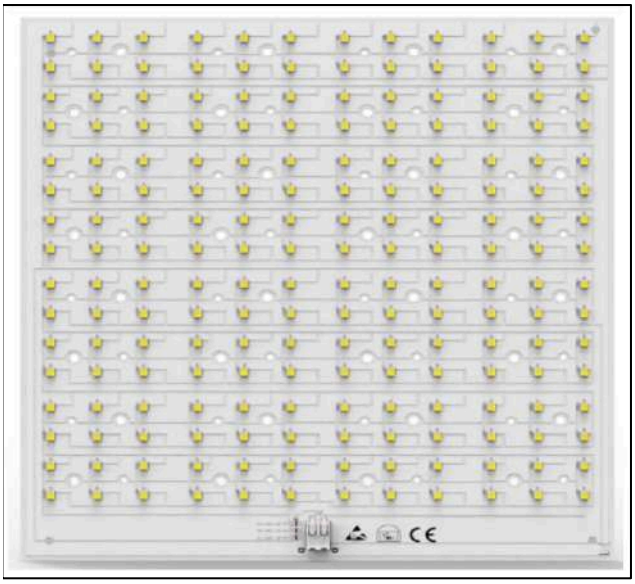


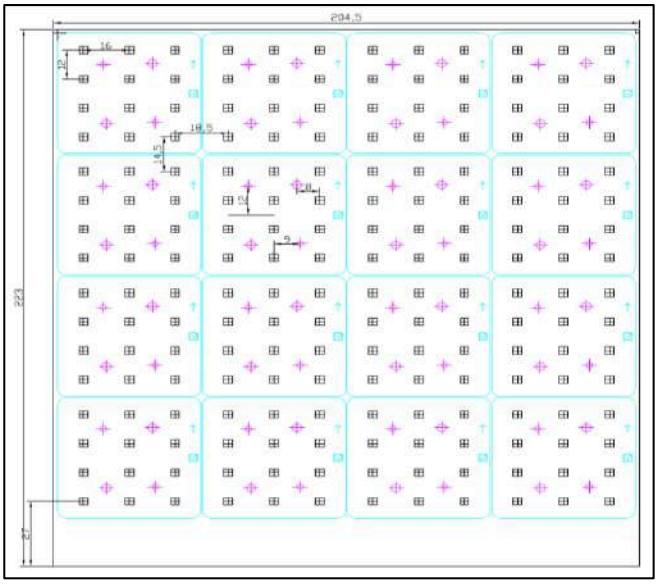
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-SQ24S04P-XXO1-L096-C16-160L1A2H35-124X202	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	4
Storage Temperature (°C)	-40 ~ +55	Series	24
Thermal Conductivity (W/m-K)	1>	LED Quantity	96

LED	***SAMSUNG LM302Z+***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	140,4	144,7	150,2
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	87,5	125	175
Module Power (W)	49,14	72,35	105,14
Module Light Output (lm)	8246	11290	15091
Module Efficiency (lm/W)	168	156	144

LED	***SAMSUNG LM302D***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	139,2	144,2	150,7
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	87,5	125	175
Module Power (W)	48,72	72,10	105,49
Module Light Output (lm)	8803	12067	16061
Module Efficiency (lm/W)	181	167	152

4087N-SQ24S08PCC-XXO2-L192-C01-160L1A2H35-223X204,5S



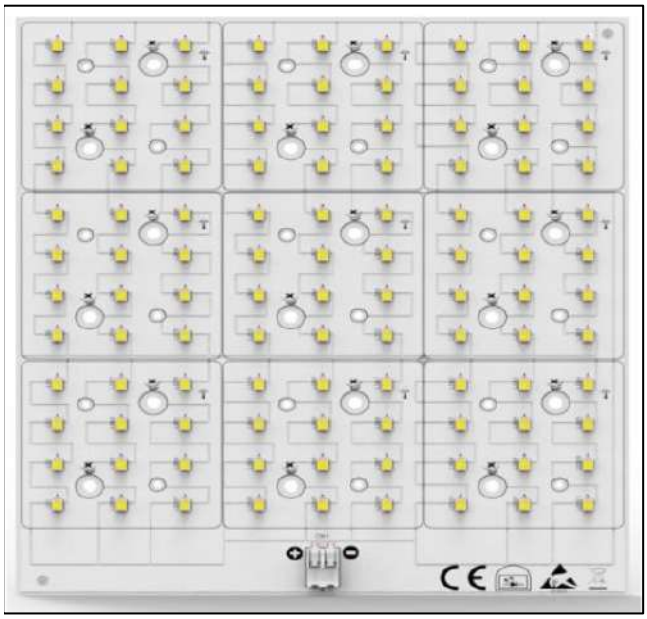


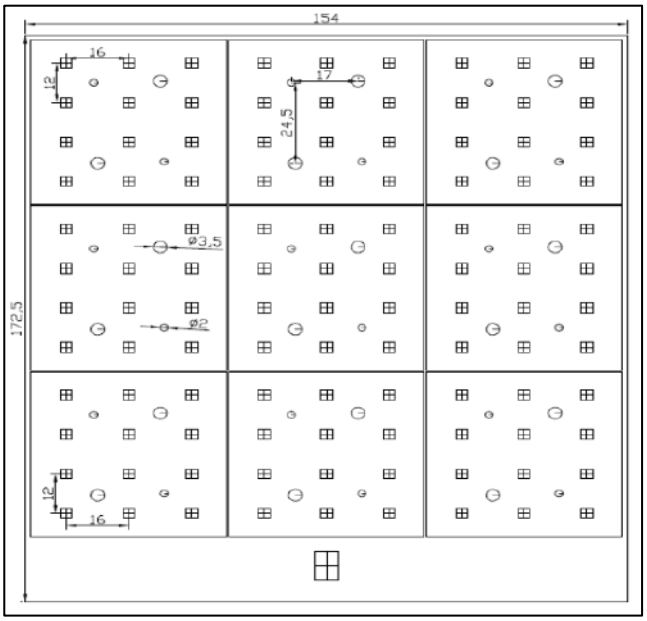
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-SQ24S08PCC-XXO2-L192-C01-160L1A2H35-223X204,5	Electrical Connection	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	8
Storage Temperature (°C)	-40 ~ +55	Series	24
Thermal Conductivity (W/m-K)	1>	LED Quantity	192

LED	*SAMSUNG LM302D*		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	139,2	145,2	150,7
Module Operating Current (mA)	700	1050	1400
Branch Operating Current (mA)	87,5	131,25	175
Module Power (W)	97,44	152,46	210,98
Module Light Output (lm)	17606	25306	32122
Module Efficiency (lm/W)	181	166	152

LED	*SAMSUNG LM281B+SE*		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	68,4	70	71,3
Module Operating Current (mA)	700	1050	1400
Branch Operating Current (mA)	87,5	131,25	175
Module Power (W)	47,88	73,50	99,82
Module Light Output (lm)	8410	12038	14189
Module Efficiency (lm/W)	176	164	142

4087N-SQ27S04PCC-XXO1-L108-C01-160L1A2H35-172,5X154



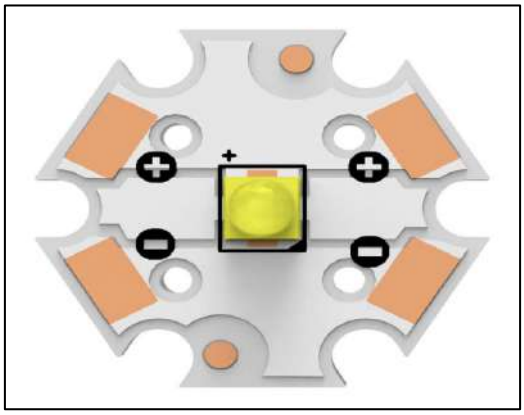


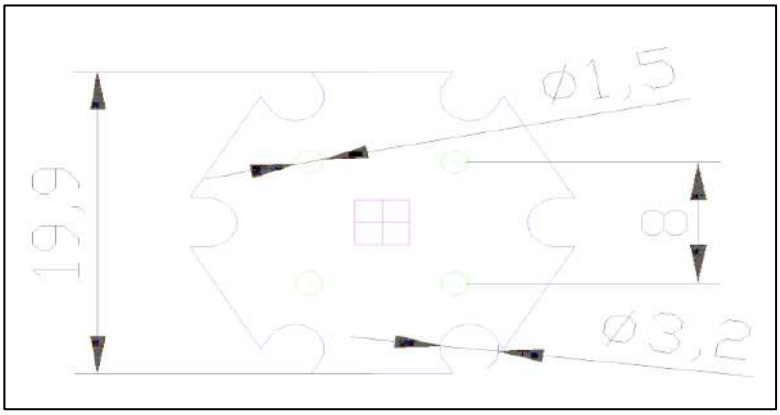
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-SQ27S04PCC-XXO1-L108-C01-160L1A2H35-172,5X154	Electrical Connection	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	4
Storage Temperature (°C)	-40 ~ +55	Series	27
Thermal Conductivity (W/m-K)	1>	LED Quantity	108

LED	*SAMSUNG LM302D*		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	156,6	162,3	169,6
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	87,5	125	175
Module Power (W)	54,81	81,15	118,72
Module Light Output (lm)	9904	13576	18068
Module Efficiency (lm/W)	181	167	152

LED	*SAMSUNG LM281B+SE*		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	77	78,6	80,2
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	87,5	125	175
Module Power (W)	26,95	39,30	56,14
Module Light Output (lm)	4730	6458	7981
Module Efficiency (lm/W)	176	164	142

4087N-ST01S01PCC-L001-C00-160L1A2H35-20X20



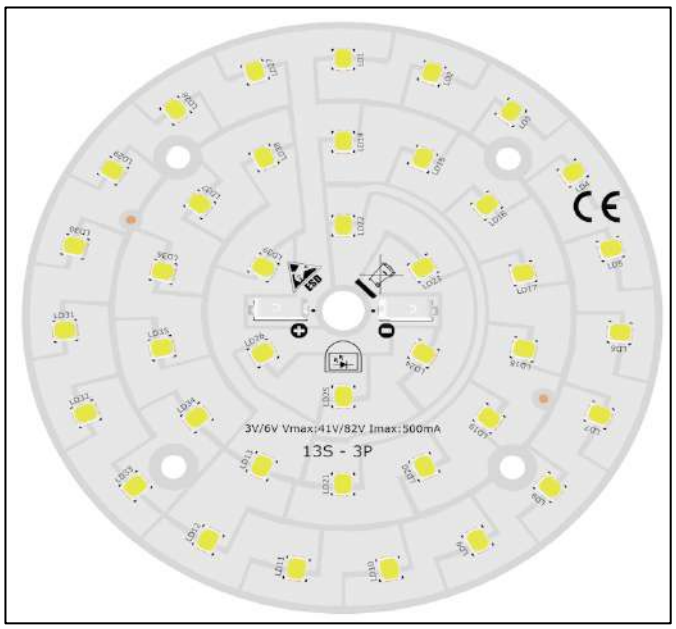


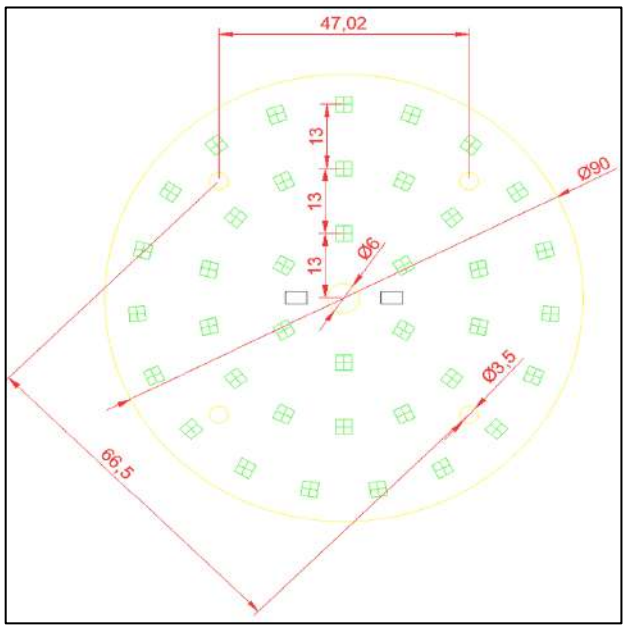
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-ST01S01PCC-L001-C00-160L1A2H35-20X20	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	1
Storage Temperature (°C)	-40 ~ +55	Series	1
Thermal Conductivity (W/m-K)	1>	LED Quantity	1

LED	***SAMSUNG LH351C***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	70+		
Module Operating Voltage (V)	2,75	2,85	2,94
Module Operating Current (mA)	700	1050	1400
Branch Operating Current (mA)	700	1050	1400
Module Power (W)	1,93	2,99	4,12
Module Light Output (lm)	380	532	658
Module Efficiency (lm/W)	197	178	160

LED	***CREE XTE***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	70+		
Module Operating Voltage (V)	2,85	2,96	3,08
Module Operating Current (mA)	350	700	1050
Branch Operating Current (mA)	350	700	1050
Module Power (W)	1,00	2,07	3,23
Module Light Output (lm)	171	299	428
Module Efficiency (lm/W)	171	144	132

4087N-RD13S03P-XXO1-L039-C02-100L1A1H35-90X90



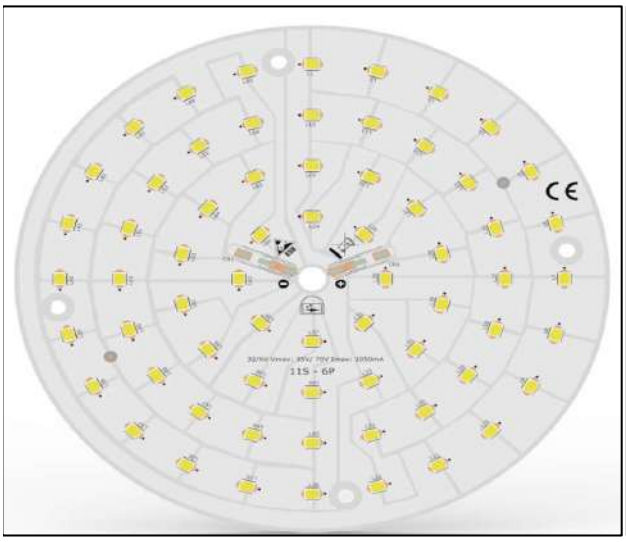


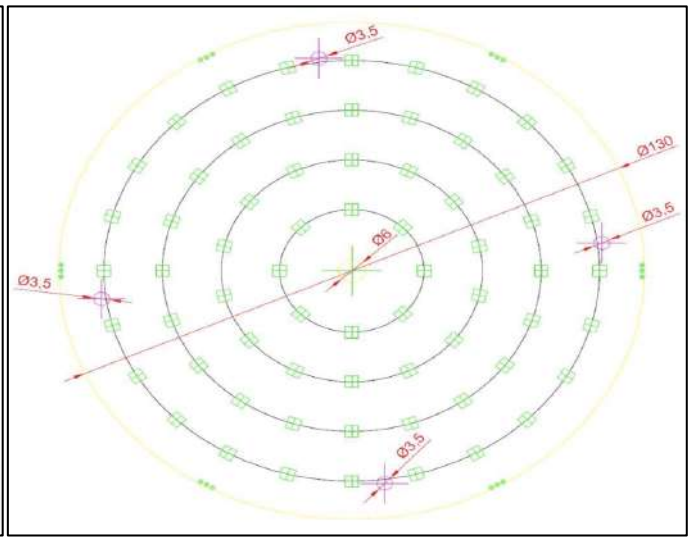
Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-RD13S03P-XXO1-L039-C02-100L1A1H35-90X90	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	3
Storage Temperature (°C)	-40 ~ +55	Series	13
Thermal Conductivity (W/m-K)	1>	LED Quantity	39

LED	***SAMSUNG LM281B+SA***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	38,1	38,6	38,8
Module Operating Current (mA)	250	300	350
Branch Operating Current (mA)	83	100	117
Module Power (W)	9,53	11,58	13,58
Module Light Output (lm)	1619	1913	2198
Module Efficiency (lm/W)	170	165	162

LED	***SAMSUNG LM302Z+***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	75,7	77,9	80,9
Module Operating Current (mA)	250	350	500
Branch Operating Current (mA)	83	117	167
Module Power (W)	18,93	27,27	40,45
Module Light Output (lm)	3177	4325	5890
Module Efficiency (lm/W)	168	159	146

4087N-RD11S06P-XXO1-L066-C02-100L1A1H35-130X130





Common Characteristic [@Tj : 85°C] ;			
Module Code	4087N-RD11S06P-XXO1-L066-C02-100L1A1H35-130X130	**Electrical Connection**	
PCB Material	ALU		
Operating Temperature (°C)	-40 ~ +85	Parallel	6
Storage Temperature (°C)	-40 ~ +55	Series	11
Thermal Conductivity (W/m-K)	1>	LED Quantity	66

LED	***SAMSUNG LM281B+SA***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	31,7	32,2	32,9
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	58	83	117
Module Power (W)	11,10	16,10	23,03
Module Light Output (lm)	1974	2740	3720
Module Efficiency (lm/W)	178	170	162

LED	***SAMSUNG LM302Z+***		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	62,4	64	65,9
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	58	83	117
Module Power (W)	21,84	32,00	46,13
Module Light Output (lm)	3855	5376	7319
Module Efficiency (lm/W)	177	168	159

NOTLAR *NOTES*

We

ELEKTRONİK



Tahtakale Mahallesi, Fırat 1 Caddesi, No: 6 / 5, İç Kapı No: 28 / 29, 34325 Avcılar / İstanbul / TÜRKİYE

+90 (212) 877 50 02

www.weelektronik.com

info@weelektronik.com