

LED-PRODUCTS

SOLUTIONS FOR
ALMOST EVERY
APPLICATION

AUGUST 2021

CHIPLITE X- SERIES MODULES

CHIPLITE NEON FLEX CURVED

CHIPLITE NEON FLEX FLAT

CHIPLITE NEON FLEX EASY

LED POWER CONVERTERS

chiplite®



FROM A SMALL LIGHT IN THE DARKNESS TO A MULTI MILLION SELLER

Founded in 1982, Hermann Majert GmbH & Co. KG has been at the forefront of light-emitting diode (LED) technology since the early 1990s. The original Chiplite LED system was developed in 1999. Majert has resolutely continued developing the system and turned it into a global brand name. Over 40 million LED modules have been sold and supply contracts with numerous companies throughout the World are evidence of both the market success and the great reputation the Chiplite brand enjoys amongst the LED community.

FOCUS ON PRECISION

All Chiplite modules carry the CE seal of quality and are RoHS-certified. Production is constantly monitored: the production plants, production sites and the raw materials used are all continuously examined. Furthermore, our modules are thoroughly inspected in a comprehensive testing process. During 1,000 hours of permanent use in a climatic chamber under extreme conditions and temperature fluctuations from $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$, they have to prove their ability to withstand extremes of both heat and cold.

EVERYTHING ACCORDING TO PLAN

Do you need an LED system for some lettering or for another lighting project? All we need from you is a plan or a scale drawing of the structure to be illuminated with information regarding the profile, the depth and the colour of the acrylic face. Within a very short time – usually no longer than 24 hours – you will receive an offer for the corresponding quantity of the LED module type, adapted to suit the form. If you have any questions or problems we will be happy to help you by telephone or pay you a visit on request. Please feel free to contact our technical support department at: +49 (0)2054 87 88 – 216.

The energy consumption label and the entry in the EPREL database, according to the ecodesign regulation of the EU, are in preparation.

chiplite[®]

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CH IPLITE CL-XOL MODULE FOR LETTERS AND LIGHTBOXES FROM 50 MM DEPTH

The CL-XOL module is fitted with two SMD LEDs including optical lenses and an IP65 rated housing. At only 57mm x 15.6mm in size and available in chains of 100, it can be used from a depth of 50mm. This module generates a luminous flux of 58 lumens using 0.48 watts of power (120 lumens per watt) making it suitable for use in lettering and light boxes of practically any size.

TECHNICAL FEATURES

- TWO SMD LEDs WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 100 MODULES
- DIMENSIONS: 57MM X 15.6MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 0.48 WATTS PER MODULE
- LUMENS PER MODULE: 58
- EFFICIENCY: 120 LUMENS PER WATT
- BEAM ANGLE: 160 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.5	40	0,48	12	58	120	7.500 K
Warmwhite 3.5	40	0,48	12	38	80	3.500 K
Red	40	0,48	12	9	18	620 nm
Green	40	0,48	12	22	46	520 nm
Blue	40	0,48	12	8	16	465 nm
Yellow	40	0,48	12	9	18	590 nm

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLETE CL-XO MODULE FOR LETTERS AND LIGHTBOXES FROM 30 MM DEPTH

The CL-XO module is fitted with two SMD LEDs including optical lenses and an IP65 rated housing. At only 50mm x 14.6mm in size and available in chains of 100, it can be used from a depth of 30mm. This module generates a luminous flux of 58 lumens using 0.48 watts of power (120 lumens per watt) making it the perfect choice for shallow letters.

TECHNICAL FEATURES

- TWO SMD LEDs WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 100 MODULES
- DIMENSIONS: 50MM X 14.6MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 0.48 WATTS PER MODULE
- LUMENS PER MODULE: 58
- EFFICIENCY: 120 LUMENS PER WATT
- BEAM ANGLE: 160 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.0	40	0,48	12	58	120	7.000 K
Warmwhite 3.5	40	0,48	12	55	114	3.500 K
Red	40	0,48	12	12	25	620 nm
Green	40	0,48	12	24	50	520 nm
Blue	40	0,48	12	7	14,6	465 nm
Warmwhite 4.5	40	0,48	12	55	114	4.500 K
White 5.5	40	0,48	12	55	114	5.500 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CH IPLITE CL-XMO-MODULE FOR MINI LETTERS FROM DEPTH OF 30 MM

The CL-XMO module replaced the highly successful CL-XM module and is fitted with two SMD LEDs including optical lenses and an IP65 rated housing. At only 26.8mm x 8.5mm in size and available in chains of 50, it can be used from a depth of 30mm. This module generates a luminous flux of 34 lumens using 0.30 watts of power (113 lumens per watt) making it the perfect choice for small letters.

TECHNICAL FEATURES

- TWO SMD LEDs WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 50 MODULES
- DIMENSIONS: 26.8MM X 8.5MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 0.30 WATTS PER MODULE
- LUMENS PER MODULE: 34 (WHITE)
- EFFICIENCY: 113 LUMENS PER WATT (WHITE)
- BEAM ANGLE: 160 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.5	25	0,3	12	34	113	7.500 K
Warmwhite 3.5	25	0,3	12	14	46,7	3.500 K
Red	25	0,3	12	5	16	620 nm
Green	25	0,3	12	8	26,7	520 nm
Blue	25	0,3	12	2,4	8	465 nm

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLETE CL-XOM MODULE FOR SMALL LETTERS AND FULL ACRYLIC LETTERS

The CL-XOM module is fitted with a single SMD LED including an optical lens and an IP65 rated housing. At only 18.3mm x 10.3mm in size and available in chains of 50, it can be used from a depth of 33mm. This module generates a luminous flux of 32 lumens using 0.24 watts of power (133 lumens per watt)

TECHNICAL FEATURES

- ONE SMD LED WITH AN OPTICAL LENS AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 50 MODULES
- DIMENSIONS: 18.3MM X 10.3MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 0.24 WATTS PER MODULE
- LUMENS PER MODULE: 32
- EFFICIENCY: 133 LUMENS PER WATT
- BEAM ANGLE: 160 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.5	25	0,24	12	32	133	7.500 K
Warmwhite 3.5	25	0,3	12	30	100	3.500 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CH IPLITE CL-XOH2 MODULE FOR LIGHTBOXES FROM 100 MM DEPTH

The CL-XOH2 module now has a new look and brighter LEDs. Fitted with two SMD LEDs including optical lenses and an IP65 rated housing. This module generates a luminous flux of 120 lumens using 0.96 watts of power (125 lumens per watt). At 100mm deep a grid of 150mm x 150mm is possible and at 120mm deep the grid can be increased to 180mm x 180mm.

TECHNICAL FEATURES

- TWO SMD LEDs WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 60 MODULES
- DIMENSIONS: 51.5MM X 21.5MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 0.96 WATTS PER MODULE
- LUMENS PER MODULE: 120
- EFFICIENCY: 125 LUMENS PER WATT
- BEAM ANGLE: 160 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

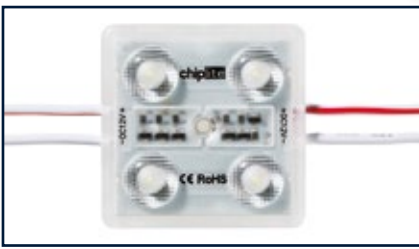
ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.0	80	0,96	12	120	125	7.000 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE CL-XOH4 MODULE FOR LIGHT BOXES FROM 180 MM DEPTH

The improved CL-XOH4 module was developed specifically for the illumination of deep light boxes. Fitted with four SMD LEDs including optical lenses and an IP65 rated housing. This module generates a luminous flux of 280 lumens using 2.80 watts of power (100 lumens per watt). At 180mm deep a grid of 350mm x 350mm is possible i.e. only 9 modules per square metre.

TECHNICAL FEATURES

- FOUR SMD LEDs WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 25 MODULES
- DIMENSIONS: 46.5MM X 46.5MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 2.80 WATTS PER MODULE
- LUMENS PER MODULE: 280
- EFFICIENCY: 100 LUMENS PER WATT
- BEAM ANGLE: 160 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.0	250	2,7	12	280	104	7.000 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE CL-FLEXO MODULE FOR SHADOW FREE ILLUMINATION OF LIGHTBOXES FROM 40 MM DEPTH

This module has an optical lens of 170° degrees and a flexible circuit board instead of wires between the modules. This makes it possible to have shadow free illumination of light boxes from 40 mm depth. You will not have the problem often seen with other systems where you see the series cables through the illuminated face of the sign. The CL-FLEXO comes on a 4800 mm long roll with 60 LED modules. The FLEXO is also available as an outdoor version.

TECHNICAL FEATURES

- ONE SMD LED WITH OPTICAL LENS AND AN IP65 RATED HOUSING ON THE OUTDOOR VERSION
- SUPPLIED ROLL LENGTH: 4800MM WITH 60 MODULES PER ROLL
- DIMENSIONS: 35MM X 23MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 0.72 WATTS PER MODULE
- LUMENS PER MODULE: 69 (WHITE)
- EFFICIENCY: 95 LUMENS PER WATT (WHITE)
- BEAM ANGLE: 170 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplate may be used to operate our modules
- Avoid electrostatic charges and discharges

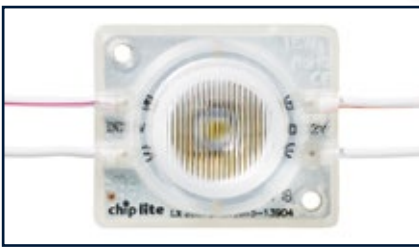
ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.0	60	0,72	12	69	95	7.000 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE CL-EL1 MODULE FOR EDGE ILLUMINATION OF LIGHT BOXES FROM 80 mm DEPTH

This module is perfect for edge lighting in many applications. Fitted with a single SMD LED including an optical lens and an IP65 rated housing. Flexible spacing means that the illumination levels can be adjusted on single and double sided light boxes. This module generates a luminous flux of 150 lumens using 1.50 watts of power (100 lumens per watt).

TECHNICAL FEATURES

- ONE SMD LED WITH AN OPTICAL LENS AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- ALUMINIUM CIRCUIT BOARD
- SUPPLIED CHAIN LENGTH: 30 MODULES
- DIMENSIONS: 43MM X 36MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 1.50 WATTS PER MODULE
- LUMENS PER MODULE: 150
- EFFICIENCY: 100 LUMENS PER WATT
- BEAM ANGLE: 56 X 12 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.0	125	1,5	12	150	100	7.000 K
Warmwhite 3:5	125	1,5	12	133	89	3.500 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE CL-EL2 MODULE FOR EDGE ILLUMINATION OF LARGER LIGHT BOXES

This module is perfect for edge lighting larger light boxes typically over 1800mm high. Fitted with a single SMD LED including an optical lens and an IP65 rated housing. Flexible spacing means that the illumination levels can be adjusted on single and double sided light boxes. This module generates a luminous flux of 250 lumens using 2.80 watts of power (89 lumens per watt).

TECHNICAL FEATURES

- ONE SMD LED WITH AN OPTICAL LENS AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- ALUMINIUM CIRCUIT BOARD
- SUPPLIED CHAIN LENGTH: 20 MODULES
- DIMENSIONS: 68MM X 34MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 2.80 WATTS PER MODULE
- LUMENS PER MODULE: 250
- EFFICIENCY: 89 LUMENS PER WATT
- BEAM ANGLE: 56 X 12 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.0	233	2,8	12	250	89	7.000 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE CL-EL3 MODULE FOR EDGE ILLUMINATION OF LIGHT BOXES FROM 60 MM DEPTH

Fitted with three SMD LEDs including a special elliptical optical lenses and an IP65 rated housing enables edge lighting from a depth of 60mm. This module generates a luminous flux of 240 lumens using 2.80 watts of power (86 lumens per watt).

TECHNICAL FEATURES

- THREE SMD LEDs WITH AN ELLIPTICAL OPTICAL LENS AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- ALUMINIUM CIRCUIT BOARD
- SUPPLIED CHAIN LENGTH: 20 MODULES
- DIMENSIONS: 100MM X 26MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 2.80 WATTS PER MODULE
- LUMENS PER MODULE: 240
- EFFICIENCY: 86 LUMENS PER WATT
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.0	233	2,8	12	240	86	7.000 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE CL-EL4 MODULE FOR EDGE ILLUMINATION OF EXTRA LARGE LIGHT BOXES

This module is suitable for edge lighting boxes up to 3000mm x 3000mm. Fitted with a single SMD LED including an optical lens and an IP65 rated housing. This module generates a huge luminous flux of 400 lumens using 4.50 watts of power (89 lumens per watt).

TECHNICAL FEATURES

- ONE SMD LED WITH AN OPTICAL LENS AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- ALUMINIUM CIRCUIT BOARD
- SUPPLIED CHAIN LENGTH: 15 MODULES
- DIMENSIONS: 63MM X 33MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 4.50 WATTS PER MODULE
- LUMENS PER MODULE: 400
- EFFICIENCY: 89 LUMENS PER WATT
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

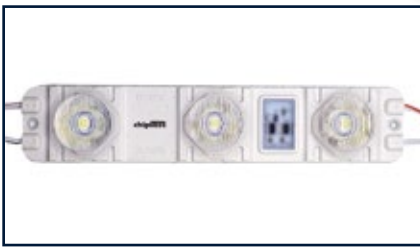
ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
WHITE 7.0	375	4,5	12	400	89	7.000 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE CL-EL6 MODULE FOR EDGE ILLUMINATION OF LIGHT BOXES FROM 80 MM DEPTH

This is our powerful edge lighting module. Fitted with three SMD LEDs including optical lenses and an IP65 rated housing. This module generates a huge luminous flux of 540 lumens using 6.00 watts of power (90 lumens per watt).

TECHNICAL FEATURES

- THREE SMD LEDs WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- ALUMINIUM CIRCUIT BOARD
- SUPPLIED CHAIN LENGTH: 10 MODULES
- DIMENSIONS: 150MM X 30MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 6.00 WATTS PER MODULE
- LUMENS PER MODULE: 540
- EFFICIENCY: 90 LUMENS PER WATT
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
WHITE 7.0	500	6,0	12	540	90	7.000 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CH IPLITE CL-RGB MODULE FLEXIBLE RGB ILLUMINATION FROM 80 MM DEPTH

When colour changing or a specific colour is required this is the simple and reliable solution.

TECHNICAL FEATURES

- TWO SMD LEDs WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 25 MODULES
- DIMENSIONS: 49MM X 19MM
- OPERATING VOLTAGE: 12 VOLTS
- POWER CONSUMPTION: 0.72 WATTS PER MODULE
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
RGB	60	6,0	12	R= 6 / G= 10/ B= 3 lm		

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE CL-XOL-24 MODULE FOR LETTERS AND LIGHTBOXES FROM 50 MM DEPTH

The CL-XOL-24 module is fitted with two SMD LEDs including optical lenses and an IP65 rated housing. At only 57mm x 17mm in size and available in chains of 100, it can be used from a depth of 50mm. This module generates a luminous flux of 60 lumens using only 0.36 watts of power (165 lumens per watt) making it suitable for use in lettering and light boxes of practically any size.

TECHNICAL FEATURES

- TWO SMD LEDS WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 100 MODULES
- DIMENSIONS: 57MM X 17MM
- OPERATING VOLTAGE: 24 VOLTS
- POWER CONSUMPTION: 0.36 WATTS PER MODULE
- LUMENS PER MODULE: 60
- EFFICIENCY: 165 LUMENS PER WATT
- BEAM ANGLE: 160 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.5	15	0,36	24	60	165	7.500 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	22	25	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE CL-XOH2-24 MODULE FOR LETTERS AND LIGHTBOXES FROM 100 MM DEPTH

The CL-XOH2-24 module is fitted with two SMD LEDs including optical lenses and an IP65 rated housing. At only 51.5mm x 21.5mm in size and available in chains of 60, it can be used from a depth of 100mm. This module generates a luminous flux of 108 lumens using only 0.72 watts of power (150 lumens per watt).

TECHNICAL FEATURES

- TWO SMD LEDs WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 60 MODULES
- DIMENSIONS: 51.5MM X 21.5MM
- OPERATING VOLTAGE: 24 VOLTS
- POWER CONSUMPTION: 0.72 WATTS PER MODULE
- LUMENS PER MODULE: 108
- EFFICIENCY: 150 LUMENS PER WATT
- BEAM ANGLE: 160 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplate may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.0	30	0,72	24	108	150	7.000 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	22	25	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE CL-XOH4-24 MODULE FOR LIGHTBOXES FROM 180 MM DEPTH

The CL-XOH4-24 module is fitted with four SMD LEDs including optical lenses and an IP65 rated housing. At only 46.5mm x 46.5mm in size and available in chains of 20, it can be used from a depth of 180mm. This module generates a luminous flux of 330 lumens using only 2.30 watts of power (144 lumens per watt).

TECHNICAL FEATURES

- FOUR SMD LEDS WITH OPTICAL LENSES AND AN IP65 RATED HOUSING
- LED CHIPS ARE CONSTANT CURRENT REGULATED
- SUPPLIED CHAIN LENGTH: 20 MODULES
- DIMENSIONS: 46.5MM X 46.5MM
- OPERATING VOLTAGE: 24 VOLTS
- POWER CONSUMPTION: 2.30 WATTS PER MODULE
- LUMENS PER MODULE: 330
- EFFICIENCY: 144 LUMENS PER WATT
- BEAM ANGLE: 160 DEGREES
- CE IN ACCORDANCE WITH EN 55015

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White 7.0	120	2,3	24	330	144	7.000 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	22	25	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CHIPLITE NEON-FLEX CURVED

This is the domed version of Neon-Flex which looks like a traditional neon tube. This profile can be curved in the horizontal plane and is ideal for forming shapes. It can easily be cut to the required length.

TECHNICAL FEATURES

- HORIZONTALLY BENDABLE, MIN DIAMETER, 70MM
- ENHANCED LEDS DEVELOPED SPECIFICALLY FOR STRIP PRODUCTS
- DIFFUSED SILICONE LENS AND THERMAL CONDUCTIVE BASE
- UV AND YELLOWING RESISTANT
- IP67 AND SALT-MIST PROOF
- FLEXIBLE AND CAN BE CUT IN MULTIPLES OF 6 LEDS
- L70B50 50,000HRS
- CONNECTION ACCESSORIES AVAILABLE

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board may not be subjected to mechanical stress
- The conductors may be neither damaged nor interrupted
- Only our CHIPPOWER power supply units may be used to operate them
- Avoid electrostatic discharges and charges
- Maximum number per lead: 10 meters

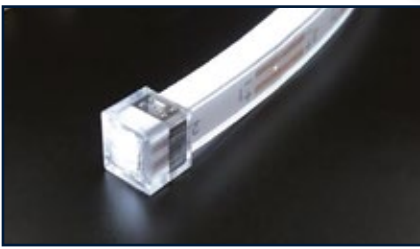
ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White	500	12	24	350		7000 K
Red	500	12	24	150		620 Nm
Green	500	12	24	280		520 Nm
Blue	500	12	24	75		465 Nm

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	11	13	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.



CH IPLITE NEON-FLEX FLAT

This is the FLAT version of Neon-Flex in square form. This profile can be curved in the vertical plane and is also ideal for straight lines. It can easily be cut to the required length.

TECHNICAL FEATURES

- VERTICALLY BENDABLE, MIN DIAMETER, 110MM
- ENHANCED LEDS DEVELOPED SPECIFICALLY FOR STRIP PRODUCTS
- ILLUMINATED SIDES
- DIFFUSED SILICONE LENS AND THERMAL CONDUCTIVE BASE
- UV AND YELLOWING RESISTANT
- IP67 AND SALT-MIST PROOF
- FLEXIBLE AND CAN BE CUT IN MULTIPLES OF 6 LEDS
- L70B50 50,000HRS
- CONNECTION ACCESSORIES AVAILABLE

SAFETY AND ASSEMBLY INFORMATION

- The components on the circuit board should not be subjected to mechanical stress
- The conductors should not be damaged or interrupted
- Only power supplies approved by Chiplite may be used to operate our modules
- Avoid electrostatic charges and discharges

ELECTRICAL AND OPTICAL OPERATING DATA

COLOUR	CURRENT (MA)	INPUT (WATTS)	VOLTAGE (DC)	LUMINOUS FLUX (LUMENS)	LUMENS PER WATT (LM/W)	COLOUR TEMPERATURE (KELVIN)
White	500	12	24	1000		7000 K
Red	500	12	24	270		620 Nm
Green	500	12	24	460		520 Nm
Blue	500	12	24	165		465 Nm
Warmwhite	500	12	24	950		3500 K

LIMIT VALUES

TYPE	VOLTAGE (DC)		OPERATING TEMPERATURE °C		STORAGE TEMPERATURE °C	
	V MIN.	V MAX.	°C MIN.	°C MAX.	°C MIN.	°C MAX.
All Types	23	25	-20	70	-40	85

Exceeding the limit values can result in a significant shortening of the service life or destruction of the module.

NEON FLEX EASY

The new Chiplite Neon-Flex EASY is the simple way to replicate indoor lettering that looks like neon. Fully fitted onto 5mm clear acrylic, the carrier can be contour or square cut so that the sign only needs to be hung and connected. EASY, is available in twelve different colors and two different thicknesses of 6mm or 8 mm. EASY can be formed as an outline or centre line letter. The system has an operating voltage of 12 volts and a power consumption of 9 watts per meter. All we need is a vector graphic with dimensions and colour details and your Neon-Flex EASY can be produced.



Some examples:

- Neon-Flex EASY lettering in warm white with text mounted on a 5mm shaped cut acrylic carrier. "Coffee" 710mm wide €230.00
- Neon-Flex EASY lettering in red, green and blue with text mounted on a 5mm shaped cut acrylic carrier. "Tonic" 450mm wide €264.00
- Neon-Flex EASY lettering in green with text mounted on a 5mm shaped cut acrylic carrier. "Snack" 850mm wide €245.00

TECHNICAL FEATURES

- COMPLETELY INSTALLED ON 5MM CLEAR ACRYLIC
- AVAILABLE IN 12 DIFFERENT COLOURS
- THICKNESS OF 6MM OR 8MM
- OPERATING VOLTAGE :12 VOLTS
- POWER CONSUMPTION: 9 WATTS PER LINEAR METRE
- LETTER HEIGHT FROM 80MM POSSIBLE
- SUITABLE FOR INDOOR USE ONLY
- INCLUDES POWER CONVERTER
- 2 YEAR WARRANTY

POWER-CONVERTER

MINIATURE POWERHOUSE

CHIPLETE LED-CONVERTER

The Chippower LED converter guarantees a reliable, even supply of current. Each converter has a very narrow design, meaning that there are no bulky transformers to cause shadows in lettering or light boxes. The power spectrum of the converters ranges from 18 W to 240 W.

TECHNICAL FEATURES

- CONSTANT VOLTAGE LED CONVERTER
- MIN. IP65
- BUILT IN PFC (NOT IN 18 WATT CONVERTER)
- 12 VOLT VERSION:
120 WATT AND 192 WATT WITH BUILT IN DIMMING FUNCTION
- 24 VOLT VERSION:
150 WATT AND 240 WATT WITH BUILT IN DIMMING FUNCTION

SAFETY AND ASSEMBLY INFORMATION

- SEE DATASHEET (ASK FOR THAT)

ELECTRICAL OPERATING DATA 12 VOLT

Typ	Size	Power consumption	Current	IP Protection
CPEVG18	140 x 30 x 20 mm	18 Watt	1,5A	IP67
CPEVG25-1	148 x 40 x 32 mm	25 Watt	2,1 A	IP67
CPEVG40	162 x 43 x 32 mm	40 Watt	3,3 A	IP67
CPEVG60-1	162 x 43 x 32 mm	60 Watt	5 A	IP67
CPEVG120-1D	219x 63 x 35,5 mm	120 Watt	10 A	IP67
CPEVG192D	244 x 71 x 37,5 mm	192 Watt	16 A	IP67

ELECTRICAL OPERATING DATA 24 VOLT

Typ	Size	Power consumption	Current	IP Protection
CP24-EVG18	140 x 30 x 20 mm	18 Watt	0,75 A	IP67
CP24-EVG25-1	148 x 40 x 32 mm	25 Watt	1,05 A	IP67
CP24-EVG40	162 x 43 x 32 mm	40 Watt	1,66 A	IP67
CP24-EVG60-1	162 x 43 x 32 mm	60 Watt	2,5 A	IP67
CP24-EVG100-1	219x 63 x 35,5 mm	100 Watt	4,16 A	IP67
CP24-EVG150-1	244 x 71 x 37,5 mm	150 Watt	6,25 A	IP67
CP24-EVG240-1	244 x 71 x 37,5 mm	240 Watt	10 A	IP67



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