

Cree ML-C White Series

The lighting class 1/3-watt XLamp ML-C LED brings high performance and a smooth look to a wide range of lighting applications, including linear lighting, LED replacement lamps, fluorescent retrofits and retail-display lighting.

FEATURES

- > Wide Viewing Angle: 120°
- > Thermal Resistance: 13°C/W
- > Maximum Drive Current: 0.35A for MLCAWT
0.175A for MLCSWT

APPLICATIONS

- > Linear Lighting
- > Fluorescent Retrofits
- > Retail Display



Flux Characteristics ($T_j=25^{\circ}\text{C}$ --White)(per LED)



COLOR TEMPERATURE	CCT(TYP.)(°K)*	MIN.FLUX (LM) @100MA	KIT USED
Cool White	4750--5250	30.6	00DZ
Neutral White	3700--4300	26.8	0XE5
Warm White	2800--3200	26.8	0XE7

*See Cree Specifications

*Absolute Maximum Ratings (Note 1)

ITEMS	SYMBOL	RATING	UNIT
Forward Current - MLCAWT Series (Note 2)	I_F	350	mA
Forward Current - MLCSWT Series (Note 2)	I_F	175	mA
Forward Voltage - MLCAWT Series (TYPICAL)(@100mA)	V_F	12.8	V
Forward Voltage - MLCSWT Series (TYPICAL)(@50mA)	V_F	25.6	V
Reverse Voltage	V_R	-5.0	V
Operating Temperature at T_B Point (Note 2&3))	T_{OPR}	100	°C
Junction Temperature	T_J	150	°C
ESD Classification (HBM per MIL-STD-883D)	--	Class 2	--

* Exceeding maximum ratings may damage the LED and cause potential safety hazards.

* Elevated operating temperatures can be expected to negatively impact the service life (lumen output)

* All data is related to entire assembly. Data reflects statistical mean values. Actual data may differ depending on variances in the manufacturing process.

* End users need to take into account the lumen depreciation as the temperature rises with various thermal solutions installed.

* It is highly recommended for the user to review the CREE ML-C Series page for additional and most recent technical data at <http://www.cree.com/led-components-and-modules/products/xlamp/discrete-nondirectional/xlamp-mlc>

