



Power LED Module

- High power & ultra long life COB LED module for channel letter, light box

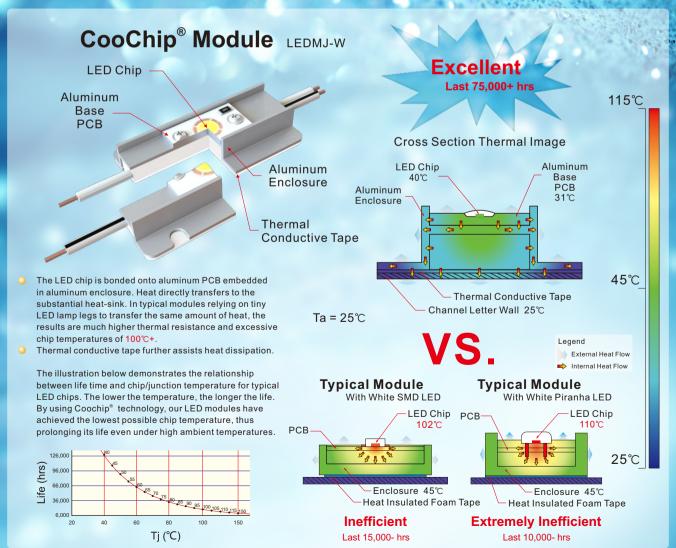




Features

- Using innovative, patent pending CooChip® technology, the LED chip is attached and bonded directly to the aluminum PCB and heat-sink, resulting in ultra low heat resistance. CooChip® RUNS COOL!
- Extended operating life at high ambient temperature, 75,000+ hrs @25℃ / 50,000+ hrs @40℃ for white LED modules.
- 178° wide angle, emits much softer, more even light compared to regular LED structure.
- Can be customized as light bar.
- Excellent for channel letter, cabinet lighting or any other back lighting application.

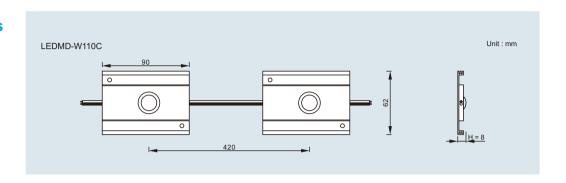
Heat Management



■ Specifications

Color	Model No.	LEDs /Unit	Voltage	Unit Watts (Max.)	Viewing Angle	W. L. (nm)	Luminance (Im)	Life Time (hrs, Ta=25℃)	Modules /Chain	Chains /Pack	
Cool White	LEDMD-W110C	1	12VDC	9W	180°	10000K	550	75,000	10	1	

Dimensions



■ Radiation characteristics

Average beam angle(50%): 156.2°

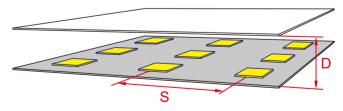
Light intensity: Percentage

- C0/180, 156.4°

- C30/210, 156.6° - C60/240, 156.2° - C90/270, 155.8°

-/+180 -150 150 -120 120 0.0 -90 90 50% 75% 60 -60 100% -30 30

■ Module spacing calculation in light box(Size:L*W=1m*1m)



D: Light box depth S: Module spacing

D (inch)	4"	5"	6"	7"	8"
Smax. (inch)	9"	11"	13"	15"	17"
D _(mm)	100 _{mm}	120 _{mm}	150 _{mm}	180 _{mm}	200 _{mm}
S _{max. (mm)}	220 _{mm}	260 _{mm}	330 _{mm}	400 _{mm}	440 _{mm}
Quantity min.	20 _{pcs}	15 _{pcs}	9 _{pcs}	6 _{pcs}	5 _{pcs}