

ARPL-3W-EPA-RGB (350mA)



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



Features

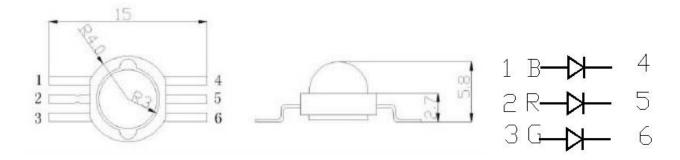
- Highest flux per LED family in the world
- Very long operating life (up to 100k hours)
- Available in White:2800K-25000K
- Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- Low voltage DC operated
- Cool beam, safe to the touch
- Fully dimmable
- No UV
- Superior ESD protection
- lower R_{th}
- RoHS compliant—lead-free
- Instant light (less than 100ns)

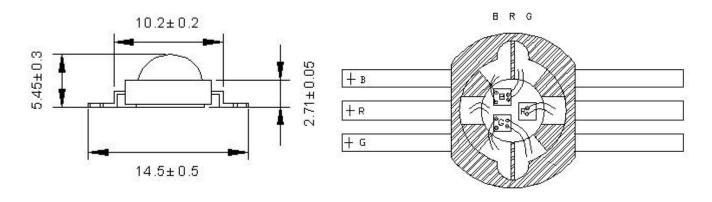
Applications

- Portable (flashlight, bicycle)
- Reading lights(car, bus, aircraft)
- Orientation
- Mini-accent
- Decorative
- Fiber optic alternative
- Appliance
- Sign and channel letter
- Architectural detail
- Cove lighting
- Automotive exterior (Stop-Tail-turn,HMSL, Mirror side repeat)
- Edge-lit signs(Exit, point of sale)



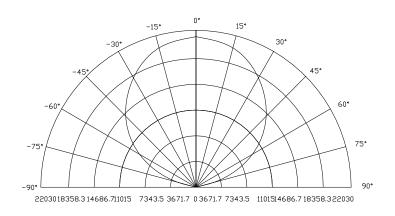
Package Dimensions

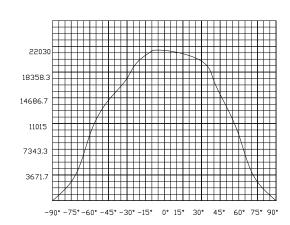




Notes: All dimensions in mm tolerance is ± 0.1 mm unless otherwise noted.

Radiation Pattern







Absolute Maximum Ratings (Ta = 25°C)

Itemsa	Symbol	Absolute ma	Unit		
DC Forward Current		R	G/B	mA	
	I _F	350	350		
Peak Forward Current*	I _{FP}	700	700	mA	
Power Dissipation	P _D	770	1120	mW	
Operation Temperature	T _{opr}	-20 -	°C		
Storage Temperature	T_{opr}	-30 ^	°C		
Manual Solding Temperature	T _{SOL}	350°C± 10°C F	°C		

^{*}pulse width <=0.1msec duty <=1/10

Typical Electrical & Optical Characteristics (Ta = 25°C)

Items	Symbol	Condition	R(Typ)	G(Typ)	B(Typ)	Unit
Forward Voltage	V _F	I _F =350mA	2.2	3.2	3.2	V
Reverse Current	I _R	V _R = 5V	10	10	10	μA
Luminous Flux	Ф۷	I _F =350mA	55	85	25	lm
Wave length	WD	I _F =350mA	625	525	465	nm
50% Power Angle	2 θ ½	I _F =350mA		140		deg
Thermal Resistance (Junction to Board)	R _{J-B}	I _F =350mA		10		°C/W

Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by GMKJ.
- 2) Tolerance of measurement of V_F is ±0.1 V.
- 3) Tolerance of measurement of the Wave length is ±1nm.
- 4) Tolerance of measurement of luminous intensity is ±10%.
- 5) As we are making continous efforts to improve the performance of LED, Specifications are subject to change without notice.
- 6) Information is tentative and subject to change without notice.



Typical Optical/Electrical Characteristics Curves

(Ta=25°C Unless Otherwise Noted)

