THEM-CLW Flux LED

multicomp



Typical Applications:

- Reading lights
 - Security lightCeiling light
- Orientation

•

- Architectural lighting
- Entertainment

Portable light

- General lighting
- Garden
- Jewel display illumination

Absolute Maximum Ratings:

Parameter	Conditions	Conditions		
DC Forward Current	350mA	700mA		
Peak Pulse Current	500mA	800mA		
LED Junction Temperature	110°C	110°C		
Operating Temperature	-30°C to +100°C			
Storage Temperature	-40°C to +120°C			
Soldering Temperature	Manual 260°C(max) 5 Seconds			
Reverse Voltage	Manual 260°C (max) 5 Seconds			

Features:

No UV

Long operating life Energy efficiency Low thermal resistance Compact design Instant light Fully dimmable

Superior ESD protection

Flux Characteristics at 350mA, Junction Temperature, TJ=25°C

Colour	Minimum Luminous Flux(Im)	Typical Luminous Flux(Im)	Max. Luminous Flux(Im)	Beam Pattern
Cool White	80	125	-	Lambertian

Notes :

1. Luminous flux is measured with an accuracy of $\pm 10\%$

Optical Characteristics at 350mA, Junction Temperature, TJ=25°C

Colour	Dominant Wavelength λd Peak Wavelength Viewing Angle D λp or Colour Temperature (CCT) Viewing Angle D		
	Min.	Max.	201/2
Cool White	5000k	10000k	120

Notes :

1. CCT ±5% tester tolerance.

2. Wavelength is measured with an accuracy of ± 0.5 nm.

www.element14.com www.farnell.com www.newark.com



Page <1>

RoHS Compliant

THEM-CLW Flux LED



Electrical Characteristics at 350mA, Junction Temperature, TJ=25°C

Colour	Forward Voltage VF(V)		e Vғ(V)	Temperature Coefficient of V⊧(mV/°C)	Thermal Resistance Junction to lead	
	Min.	Тур.	Max.	ΔVϝ/ΔΤϳ	(°C/W)	
Red	-	3.2	-	-2	12	

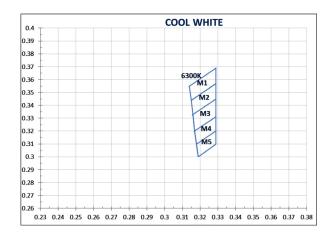
Notes:

1. VF ±0.1V tester tolerance.

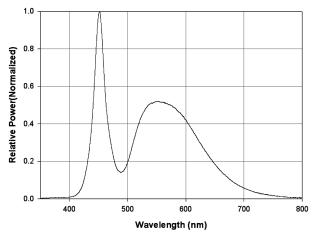
Colour Bins for Cool White

Bin Code	x	Y	Тур. ССТ(К)	Bin Code	x	Y	Тур. ССТ(К)
M1	0.314 0.329 0.329 0.315	0.355 0.369 0.357 0.344	5970	M4	0.329 0.329 0.318 0.317	0.331 0.320 0.310 0.320	5970
M2	0.315 0.329 0.329 0.316	0.344 0.357 0.345 0.333	5970	M5	0.329 0.329 0.319 0.318	0.320 0.310 0.300 0.310	5970
М3	0.329 0.329 0.317 0.316	0.345 0.331 0.320 0.333	5970	-	-	-	-

Tolerance on each Colour bin (x, y) is ± 0.01



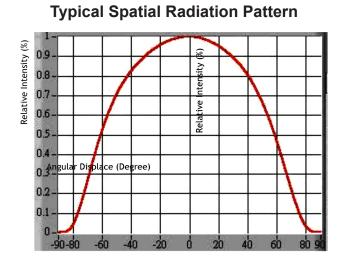
White Colour Spectrum



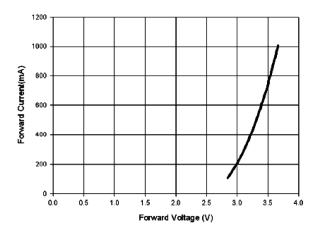
www.element14.com www.farnell.com www.newark.com



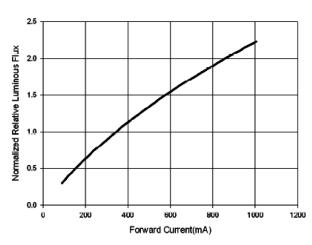




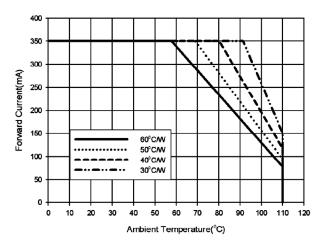
Forward I-V Characteristics



Forward L-I Characteristics



Current Derating Curves



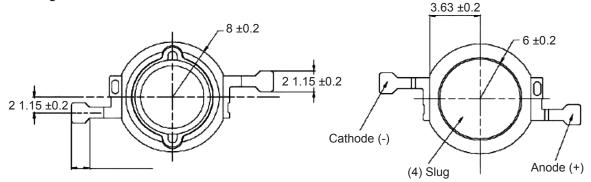
www.element14.com www.farnell.com www.newark.com

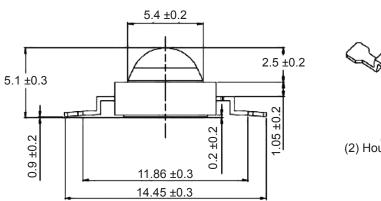


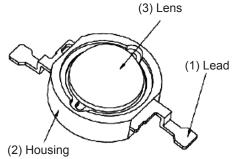
THEM-CLW Flux LED

multicomp

Drawing:







Dimensions : Millimetres Tolerance : ±0.2 mm

Notes:

The polarity of slug at bottom is anode.

It is important that the slug can't contact aluminium surface, it is strongly recommended that there should coat a uniform electrically isolated heat dissipation film on the surface.

It is strongly recommended that the temperature of lead be not higher than 70°C.

Part Number Table

Description	Part Number
THEM-CLC Flux Cool White LED	THEM-CLWX(COOL WHITE) (M1-M5)

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com www.farnell.com www.newark.com

