

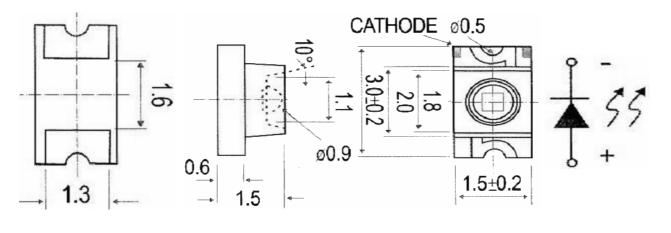


Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing



Recommended Soldering Pattern

Notes : Inner Lens Chip LED All dimensions in mm tolerance is ± 0.1mm unless otherwise noted. Yellow Part No .: M11G6004 Customer: DRW: CHKD MATL: Chui DATE Dong Chang 04.12.2009 FINISH APPD: Ping Hui Sheet 1 from 9

www.edcon-components.com

Copyright by EDCON-COMPONENTS





Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AlGalnP	Unit
Power Dissipation	PD		mW
DC Forward Current	I _F	20	mA
Plused Forward Current	I _{FP} *		mA
Reverse Voltage	V _R		V
Operating Temperature	T _{OP}		°C
Storage Temperature	T _{ST}	-55 to 100	°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Yellow					
Material		AlGalnP					
Forward Voltage	typ.	2.0	V _F				
r orward voltage	max.	2.4	V _F				
Wavelength	λD	589	nm				
-	λP		nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
Color remperature	max.		K				
Luminous Intensity *	min.	19	mcd				
Lumnous intensity	typ.	48	mcd				
Reverse Current	max.		μA				
Viewing Angle	201/2	120					

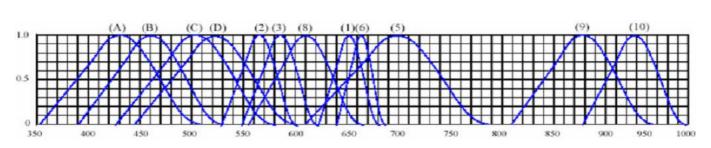
* Per NIST standards

Inner Lens Chip LED Yellow Bart No.: M11C6004									
Part No.: M11G6004						G6004			
					Custome	er:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009		
APPD:	Ping			FINISH	Hui	Sheet	2 from 9		
	Copyright by EDCON-COMPONENTS								





Curve



Wavelength (nm)

Relative Intensity vs Wavelength

(1)	GaAsP / GaAs 655nm Red	(9)	GaAlAs 880nm
(2)	GaP	(10)	GaAs & GaAlAs
	568nm Yellow Green		940nm
(3)	GaAsP / GaP	(A)	GaN
	585nm Yellow		430nm Blue
(4)	GaAsP / GaP	(B)	InGaN
	635nm Orange & Red		470nm Blue
(5)	GaP	(C)	InGaN
	700nm Red		502nm Green
(6)	GaAlAs / GaAs	(D)	InGaN
	660nm Red		523nm Green
(8)	GaAsP / GaP		
	610nm Red		

					Inner Lens Chip LED Yellow		
					Part No.: M11G6004		G6004
					Customer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui DATE 04.12.2		04.12.2009
APPD:	Ping			FINISH	Hui Sheet 3 from		

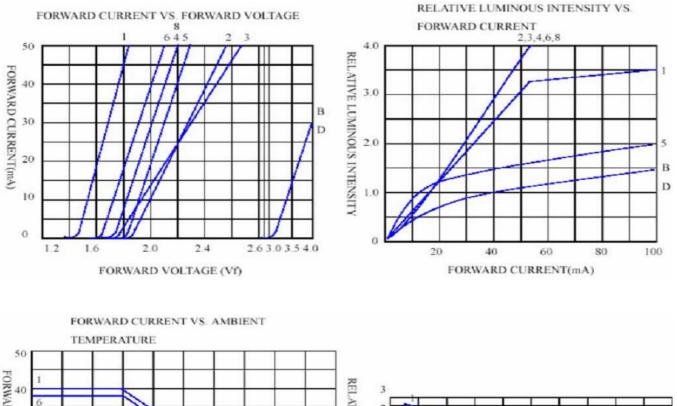
www.edcon-components.com

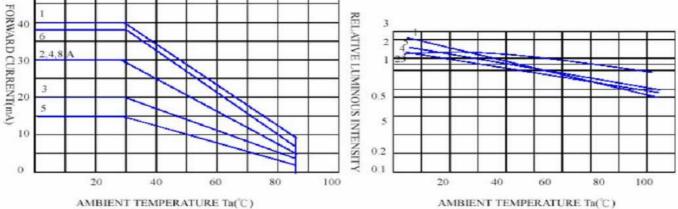
Copyright by EDCON-COMPONENTS





Curve





					Inner Lens Chip LED Yellow		
					Part No.: M11G6004		
					Customer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui Sheet 4 from 9		

ſ

www.edcon-components.com

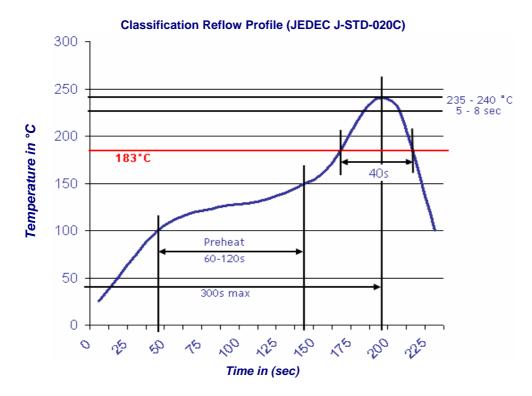
Copyright by EDCON-COMPONENTS





Solder Condition

Lead Free Solder



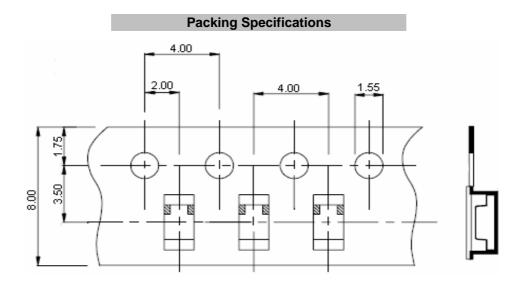
Inner Lens Chip LED Yellow Part No.: M11G6004 Customer: 04.12.2009

						0.0.0		
	DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
	APPD:	Ping			FINISH	Hui	Sheet	5 from 9
Ī	Convright by EDCON-COMPONENTS							

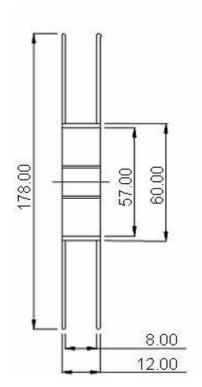
opyright by EDCON-COMPONENTS

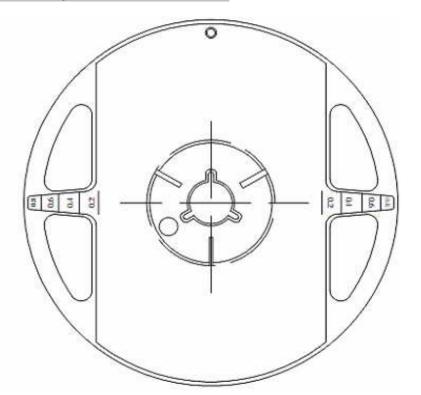






Reel Specifications





					Inner Lens Chip LED Yellow		
					Part No.: M11G6004		G6004
					Customer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui Sheet 6 from 9		

www.edcon-components.com

Copyright by EDCON-COMPONENTS

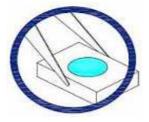




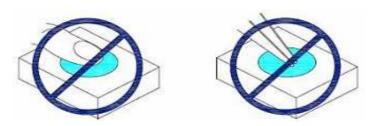
Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although ist characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might leads to damage and premature failure of th LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools



2. Do not directly touch or handle the silicone lens surfance. It may damage the internal circuitry.



3. Do not stack together assembled PCBs containing exposed LEDs. Outside impact may scratch the silicone lens or damage the internal circuitry.



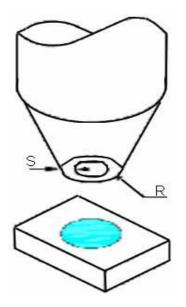
					Inner Lens Chip LED Yellow				
					Part No.: M11G6004				
					Customer:				
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009		
APPD:	Ping			FINISH	Hui	Sheet	7 from 9		
	Copyright by EDCON-COMPONENTS								

email: info@edcor





- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



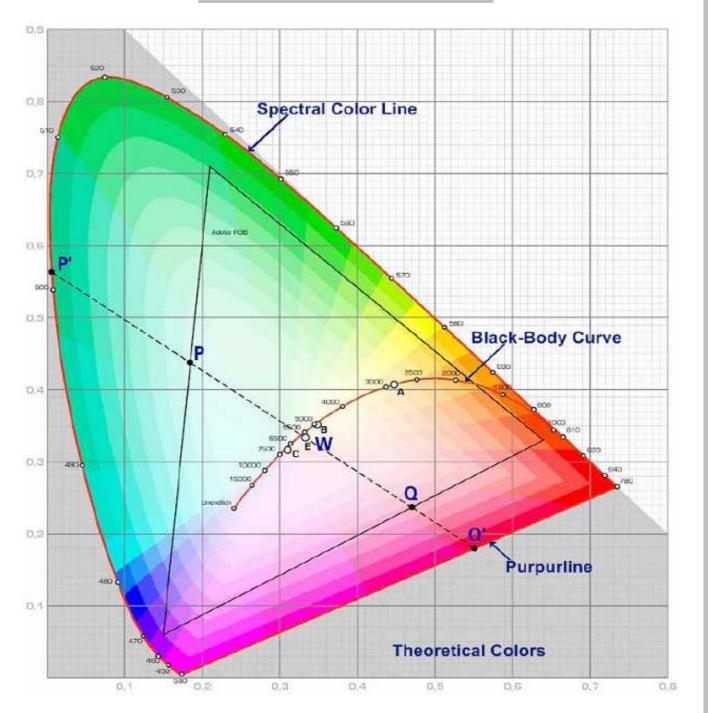
Inner Lens Chip LED	
Yellow	

					Part No.	.: M110	36004	
					Custome	er:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009	
APPD:	Ping			FINISH	Hui	Sheet	8 from 9	
	Copyright by EDCON-COMPONENTS							





Color table curve



					Inner Lens Chip LED Yellow		
					Part No.: M11G6004		
					Customer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
APPD:	Ping			FINISH	Hui Sheet 9 from 9		

www.edcon-components.com

Copyright by EDCON-COMPONENTS