

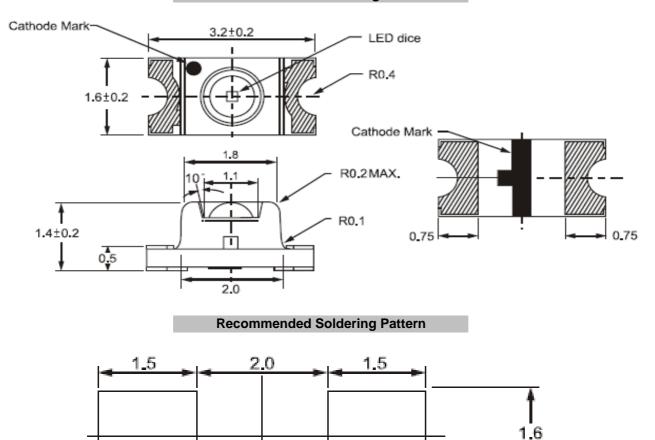


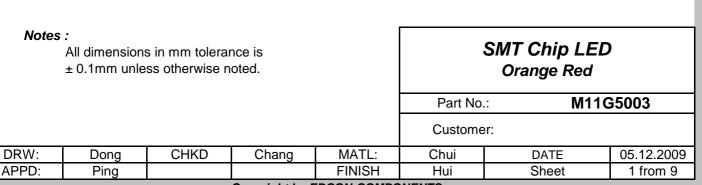
Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing





www.edcon-components.com

Copyright by EDCON-COMPONENTS





Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AlGalnP	Unit
Power Dissipation	P _D		mW
DC Forward Current	I _F	30	mA
Plused Forward Current	I _{FP} *	100	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{OP}	-25 to 80	°C
Storage Temperature	T _{ST}	-40 to 85	°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color	Orange Red						
Material		AlGalnP					
Forward Voltage	typ.	2.0	V _F				
r orward voltage	max.	2.6	V _F				
Wavelength	λD	615	nm				
-	λP	620	nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
	max.		K				
Luminous Intensity *	min.	63	mcd				
Lumnous intensity	typ.	100	mcd				
Reverse Current	max.		μA				
Viewing Angle	201/2	60					

* Per NIST standards

				_						
SMT Chip LED Orange Red										
Part No.: M11G5003										
Customer:										
DRW: Dong CHKD Chang MATL: Chui DATE 05.12.2009										
APPD:	Ping			FINISH	Hui	Sheet	2 from 9			
	Copyright by EDCON-COMPONENTS									





Directive Characteristics

SMT Chip LED Orange Red

Part No .: M11G5003 Customer: DRW: CHKD MATL: Chui DATE 05.12.2009 Dong Chang FINISH APPD: Ping Hui Sheet 3 from 9 Copyright by EDCON-COMPONENTS





Curvs

SMT Chip LED Orange Red

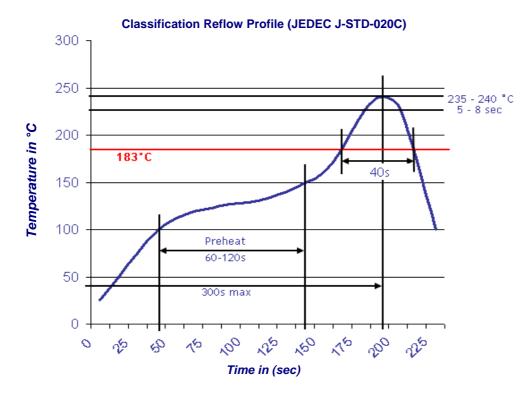
Part No .: M11G5003 Customer: DRW: CHKD MATL: Chui DATE 05.12.2009 Dong Chang FINISH APPD: Ping Hui Sheet 4 from 9 Copyright by EDCON-COMPONENTS





Solder Condition

Lead Free Solder



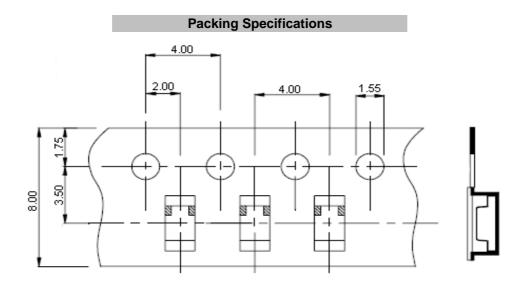
SMT Chip LED Orange Red Part No.: M11G5003 Customer:

				Custome	ſ.				
ſ	DRW:	Dong	CHKD	Chui	DATE	05.12.2009			
ſ	APPD:	Ping			FINISH	Hui	Sheet	5 from 9	
1									

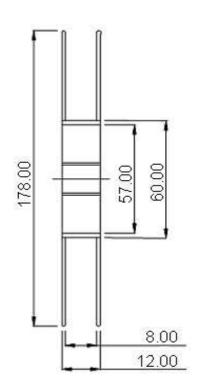
Copyright by EDCON-COMPONENTS

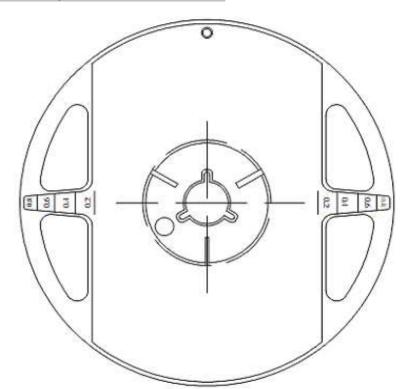






Reel Specifications





Part No.: M11G5003 Customer: Customer:	SMT Chip LED Orange Red									
DRW: Dong CHKD Chang MATL: Chui DATE 05.12.2009	Part No.: M11G5003									
	Customer:									
	DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009		
APPD: Ping FINISH Hui Sheet 6 from 9	APPD:	Ping			FINISH	Hui	Sheet	6 from 9		

Copyright by EDCON-COMPONENTS

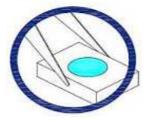




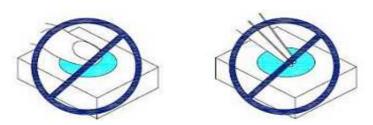
Handling Precautions

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.

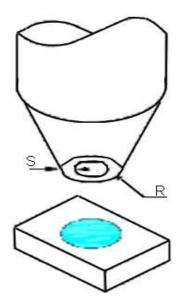


					SMT Chip LED Orange Red)			
			Part No.	.: M110	G5003				
Customer:									
DRW: Dong CHKD Chang MATL: Chui DATE 05.12.2009									
PPD:	Ping			FINISH	Hui	Sheet	7 from 9		
			Copyright by E	DCON-COMPO	NENTS				





- 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.



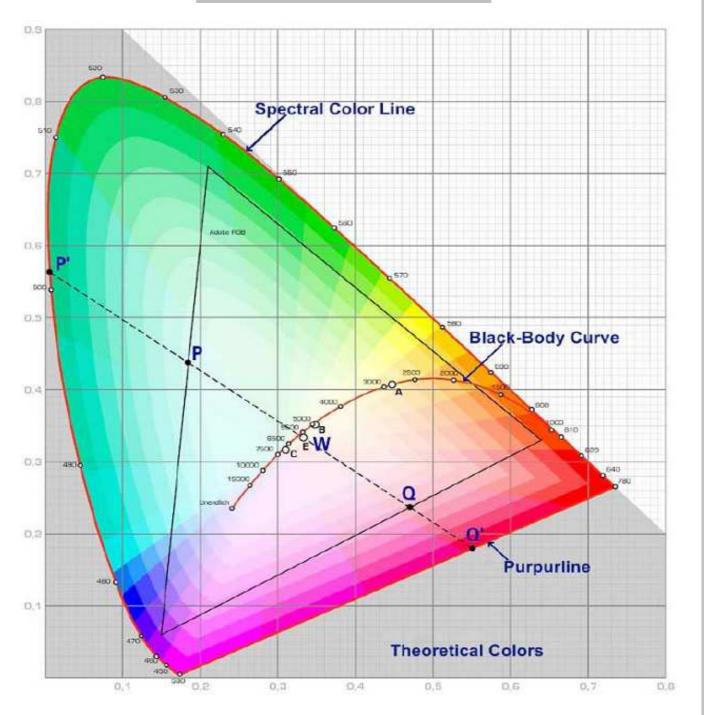
SMT Chip LED Orange Red

Part No.: M11G5003									
Customer:									
DRW: Dong CHKD Chang MATL: Chui DATE 05.12.2009									
APPD: Ping FINISH Hui Sheet 8 from 9									
Copyright by EDCON-COMPONENTS									





Color table curve



					SMT Chip LED Orange Red			
					Part No	.: M110	G5003	
					Custome	er:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009	
APPD:	Ping			FINISH	Hui	Sheet	9 from 9	

www.edcon-components.com

Copyright by EDCON-COMPONENTS