

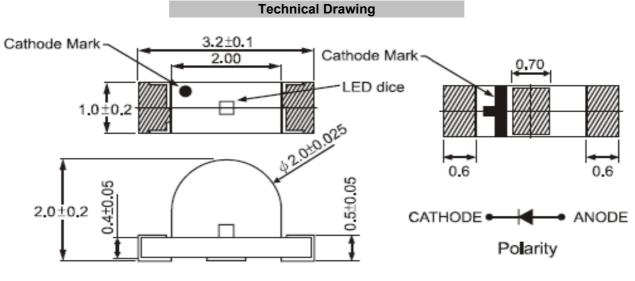


Applications

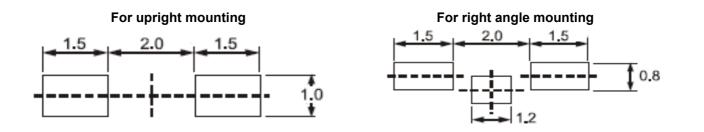
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting

 Toys



Recommended Soldering Pattern



Notes	: All dimensions ± 0.1mm unle				SMT Chip LEI Amber)	
					Part No.	.: M11	K4013
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009
APPD:	Ping			FINISH	Hui	Sheet	1 from 9
			Copyright by E	DCON-COMPO	NENTS		

www.edcon-components.com





Absolute Maximum Ratings

Ta=25°C

Item	Symbol	GaAsP / GaP	Unit
Power Dissipation	PD		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}	-30 to 85	°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Amber					
Material		GaAsP / GaP					
Forward Voltage	typ.	2.2	V _F				
r orward voltage	max.	2.6	V _F				
Wavelength	λD	610	nm				
-	λP	610	nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
	max.		K				
Luminous Intensity *	min.	2.4	mcd				
Lummous intensity	typ.	6.0	mcd				
Reverse Current	max.		μA				
Viewing Angle	2Θ1/2	100					

* Per NIST standards

					SMT Chip LED Amber			
					Part No.	Part No.: M11K4013		
					Custome	r:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009	
APPD:	Ping			FINISH	Hui	Sheet	2 from 9	
			Copyright by E	DCON-COMPO	NENTS			

ıyı

Г





SMT Chip LED Amber Part No .: M11K4013 Customer: CHKD MATL: Chui DATE 05.12.2009 Dong Chang FINISH Ping Hui Sheet 3 from 9

www.edcon-components.com

DRW:

APPD:

Copyright by EDCON-COMPONENTS





				SMT Chip LED Amber		
				Part No	.: M11	(4013
				Custome	stomer:	
Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009
Ping			FINISH	Hui	Sheet	4 from 9

www.edcon-components.com

DRW: APPD:

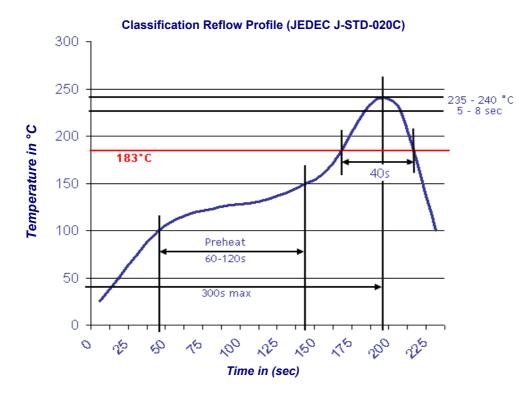
Copyright by EDCON-COMPONENTS





Solder Condition

Lead Free Solder

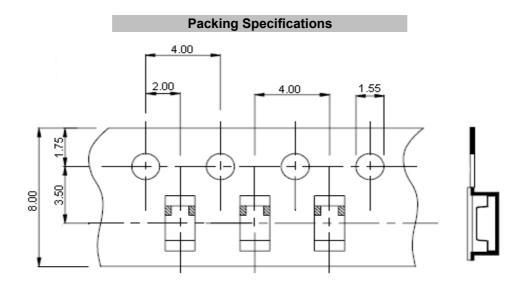


					SMT Chip LED Amber		
					Part No.: M11K4013		K4013
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009
APPD:	Ping			FINISH	Hui	Sheet	5 from 9
			Convright by E	DCON COMPC	MENTS		

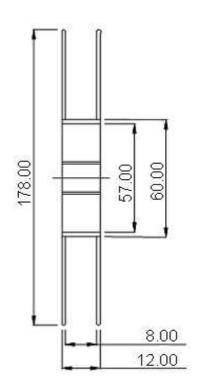
Copyright by EDCON-COMPONENTS

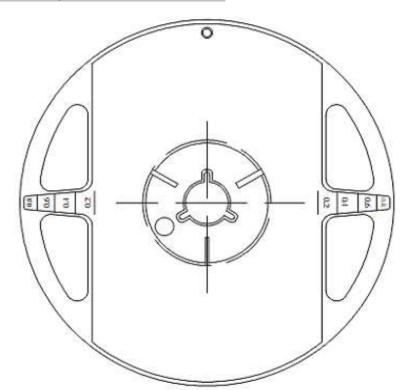






Reel Specifications





					SMT Chip LED Amber		
					Part No.: M11K4013		K4013
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009
APPD:	Ping			FINISH	Hui	Sheet	6 from 9

www.edcon-components.com

Copyright by EDCON-COMPONENTS

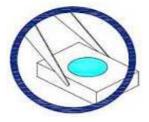




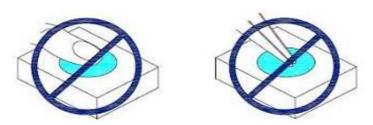
Handling Precautions

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.

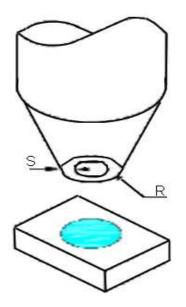


					SMT Chip LED Amber						
					Part No.	Part No.: M11K4013					
					Custome	er:					
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009				
APPD:	Ping			FINISH	Hui	Sheet	7 from 9				
	Copyright by EDCON-COMPONENTS										





- 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 Amber					
				Part No.: M11K4013					
				Custome	er:				
Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009			
Ping			FINISH	Hui	Sheet	8 from 9			
Copyright by EDCON-COMPONENTS									

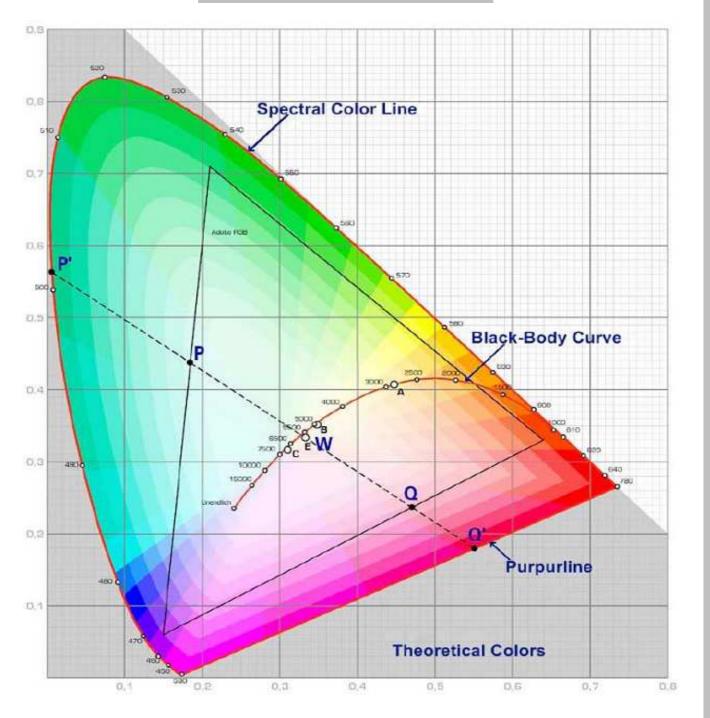
DRW:

APPD:





Color table curve



					SMT Chip LED Amber		
					Part No.: M11K4013		K4013
					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