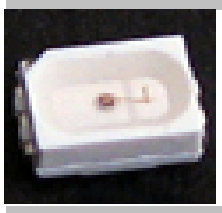


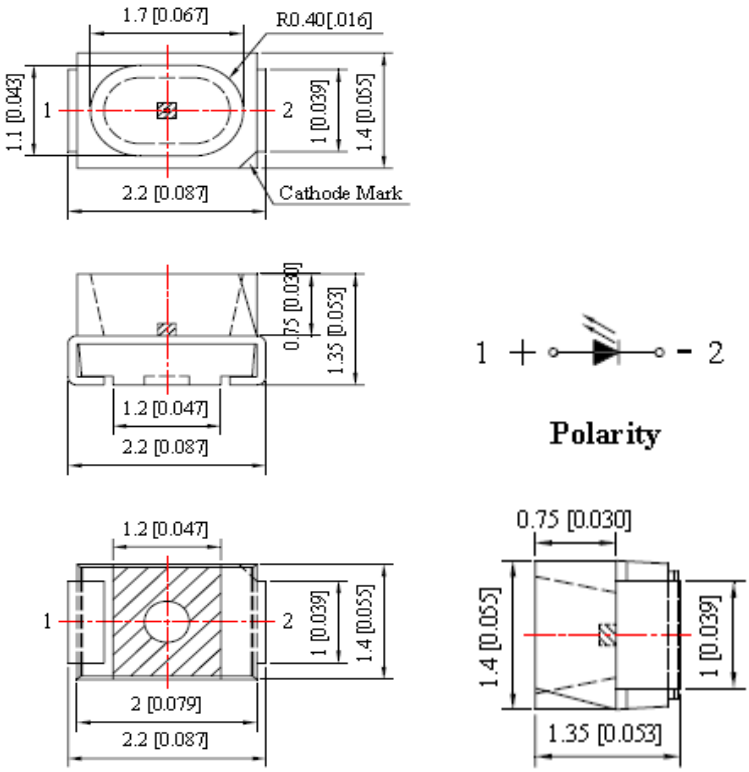
Applications

Reading lights (car, bus, aircraft)
LCD Backlights / light Guides
Fiberoptic alternative / Decorative / Entertainment
Indoor / Outdoor commercial and Residential Architectural
Mini-a ccent / Up lighters / Down Lighters / Orientation
Cove / Under shell / Task
Bollards / Security / Garden Applications
Portable Flashlight / Bicycle
Edge lit signs / Stop tail turn, SHMSL Mirror-Side Repeat
Traffic signaling / Beacons / Railcrossing and Wayside

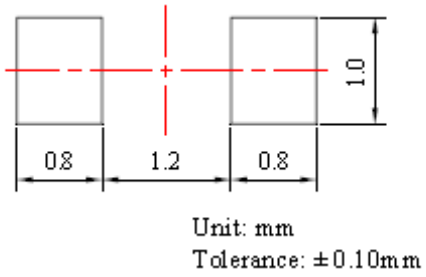
Features

Long operating life
highest flux
Lambertian radition pattern
More energy efficient than incandescent and most halogen lamps
Available in White
Low Voltage DC operated
Cool beam, safe to the touch
Instant light (less than 100ns)
Fully dimmable
NO UV

Technical Drawing



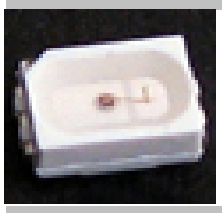
Recommended Soldering Pattern



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

Mini PLCC2 SMD LED 2,0x1,4 ***Pure-Green***	
Part No.:	**M11F4002**
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	25.02.2011
APPD:	Ping			FINISH	Hui	Sheet	1 from 9



EDCON COMPONENTS
A MEMBER OF EDCON-GROUP

Typical Optical / Electrical Characteristics @ Ta=25°C

Item	symbol	Condition	Min	Typ	Max.	Unit
Forward Voltage	VF	IF=20mA	2,8	3,4	3,8	V
Reverse Current	IR	VR=5V			10	µA
Viewing Angle	$2Ø_{1/2}$	IF=20mA		120		deg
Luminious Intensity	ØV	IF=20mA	200	450		mcd
Peak Emission Wavelength				520		nm
Dominant Wavelength				525		nm
Spectral Line Half Width	∆Y			35		nm

Notes
1 Tolerance of measurement of forward voltage ± 0,1V
2 Tolerance of measurement of peak Wavelength ± 2,0nm
3 Tolerance of measurement of luminious intensity ± 15%

Absolute Maximum Rating

Item	symbol	Absolute Maximum Rating	Unit
Forward Current	IF	25	mA
Peak Forward Current	IFD	100	mA
Reverse Votlsge	VR	5	V
Power Dissipation	PD	95	mW
Operating Temperature	Topr	. -40°C to + 80°C	
Electrostatic discharge	ESD	±400	V
Storage Temperature	Tstg	. -40°C to +85°C	
Lead Soldering Temperature	Tsol	260°C for 3 seconds max.	

IFP Conditions: Pulse Width: ≤ 10msec duty ≤ 1/10

All High Power emitter LED Products mounted on aluminium metal-core printing circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

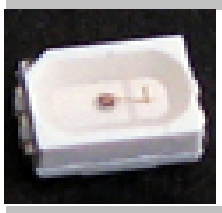
Re-flow, wave peak and soak-stannum soldering etc. is not suitable for this products.
Suggest to solder it by professional high power LED soldering machine.
Can use invariable - temperature searing-iron with soldering condition: ≤260°C for 3 seconds max.

Mini PLCC2 SMD LED 2,0x1,4
Pure-Green

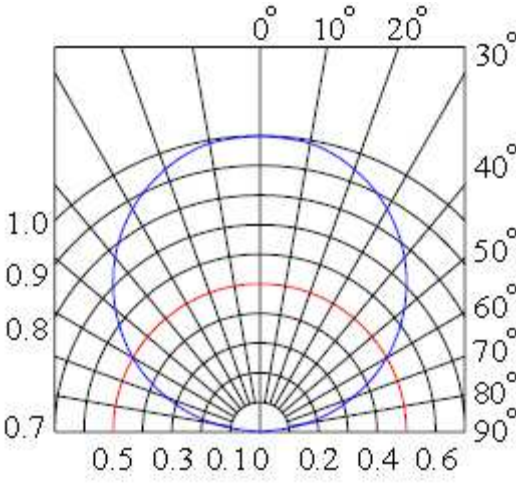
Part No.: **M11F4002**

Customer:

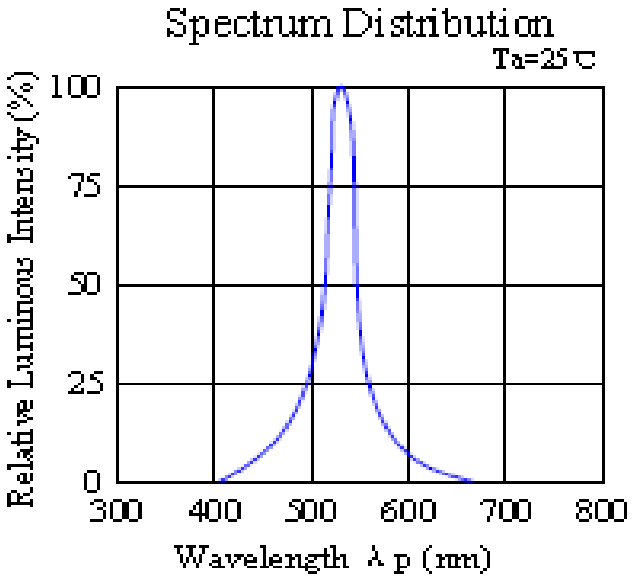
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	25.02.2011
APPD:	Ping			FINISH	Hui	Sheet	2 from 9

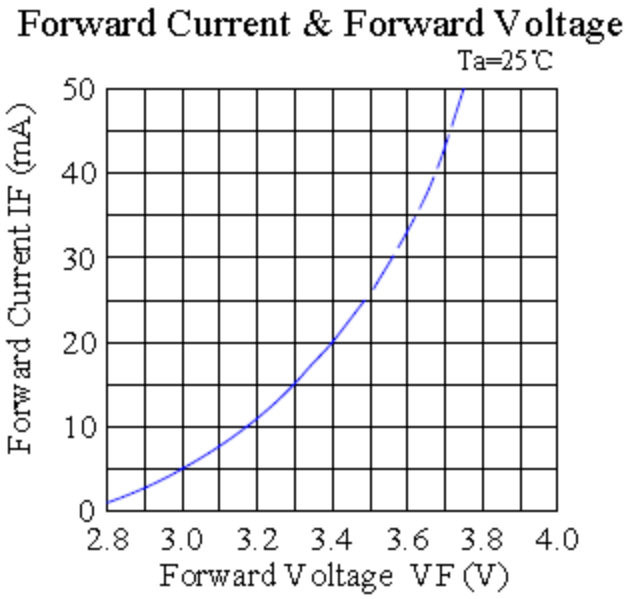


Directive Characteristics

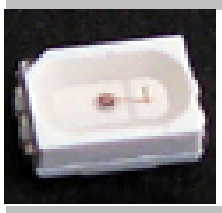


Typical optical / Electrical Characteristics Curves (Tj=25°C Unless Otherwise Noted)



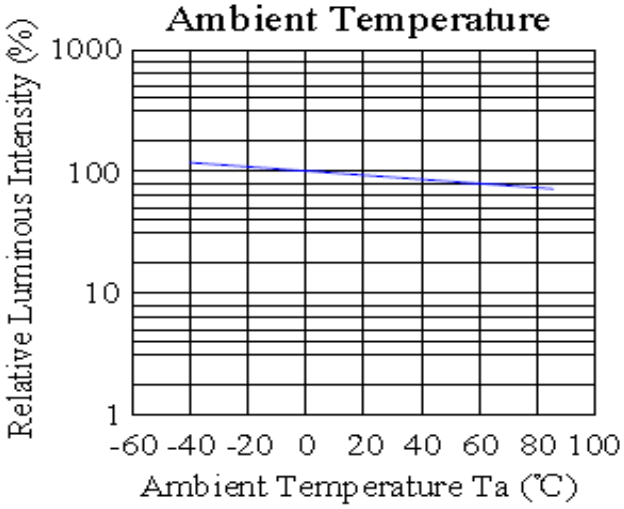


					Mini PLCC2 SMD LED 2,0x1,4 ***Pure-Green***		
					Part No.:	**M11F4002**	
					Customer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	25.02.2011
APPD:	Ping			FINISH	Hui	Sheet	3 from 9

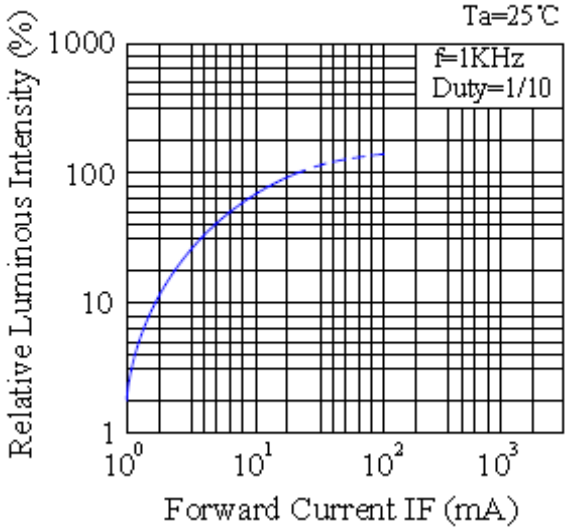


Typical optical / Electrical Characteristics Curves (Tj=25°C Unless Otherwise Noted)

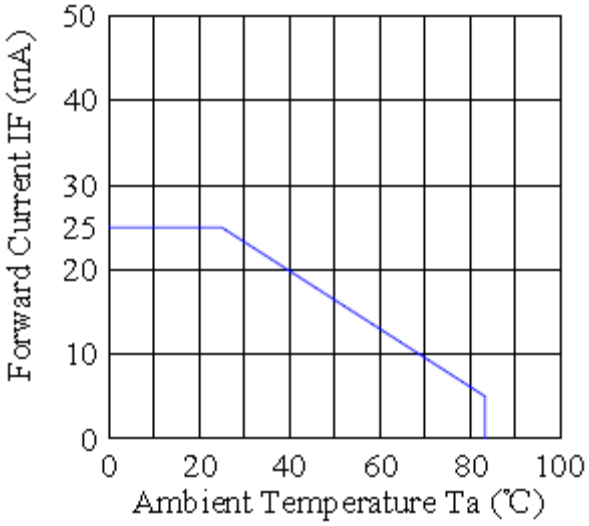
Luminous Intensity & Ambient Temperature



Luminous Intensity & Forward Current

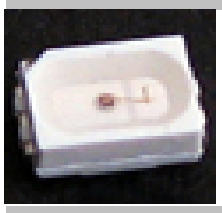


Forward Current Derating Curve



Mini PLCC2 SMD LED 2,0x1,4	
Pure-Green	
Part No.:	**M11F4002**
Customer:	

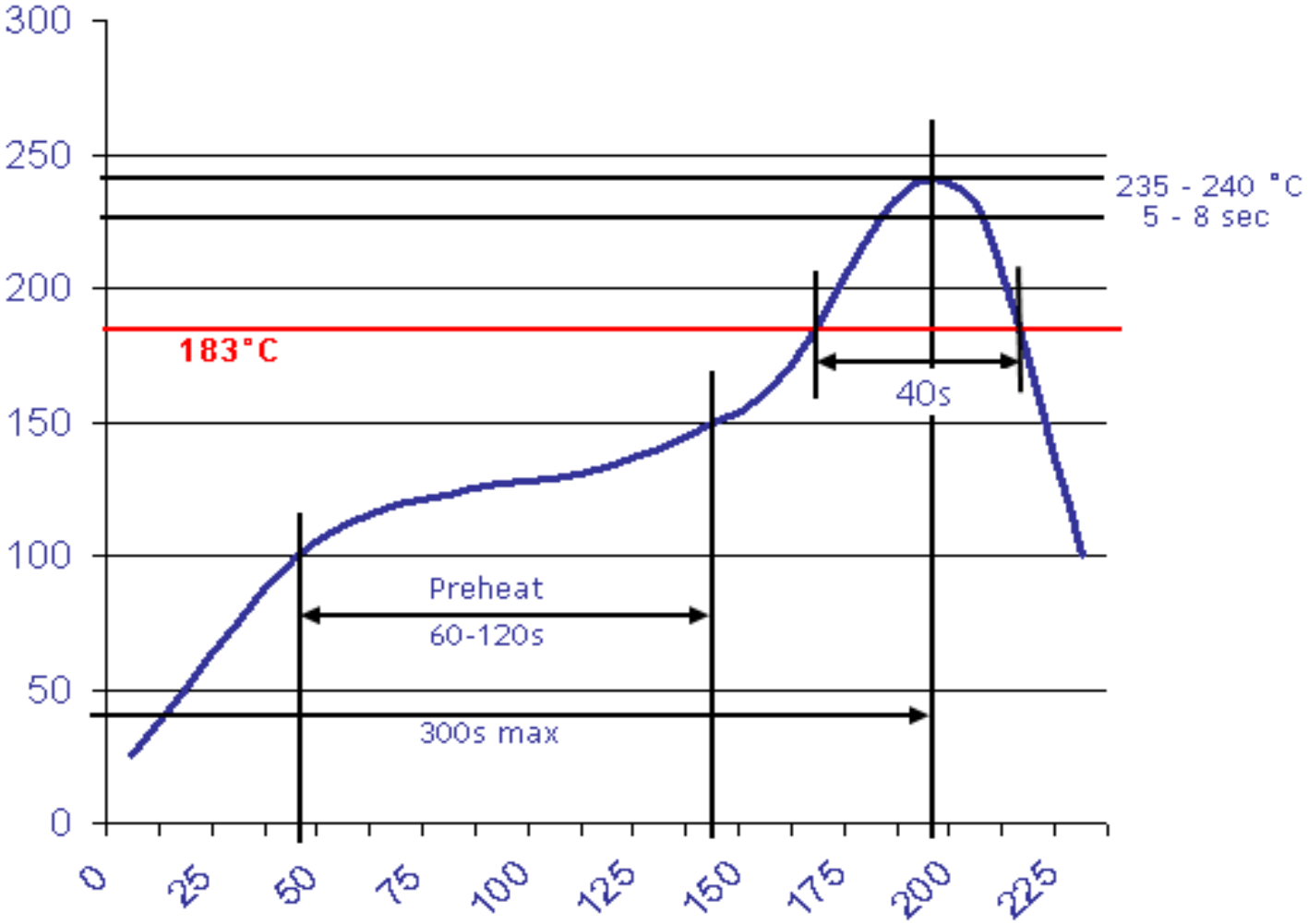
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	25.02.2011
APPD:	Ping			FINISH	Hui	Sheet	4 from 9



Solder Condition

Lead Free Solder

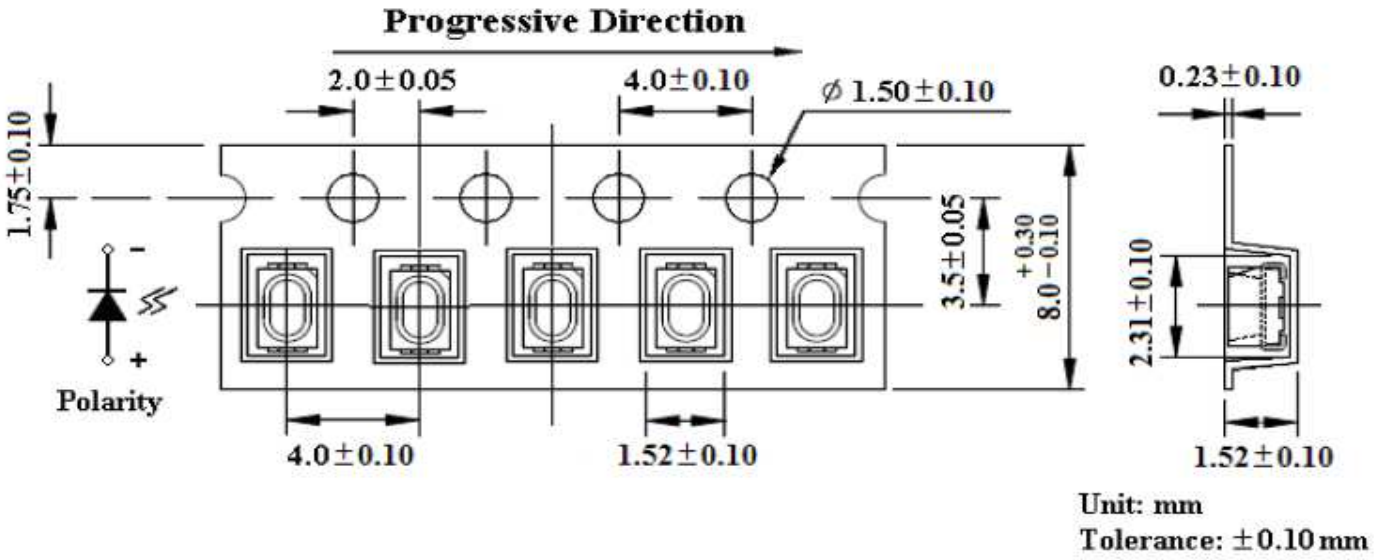
Classification Reflow Profile (JEDEC J-STD-020C)



Time in (sec)

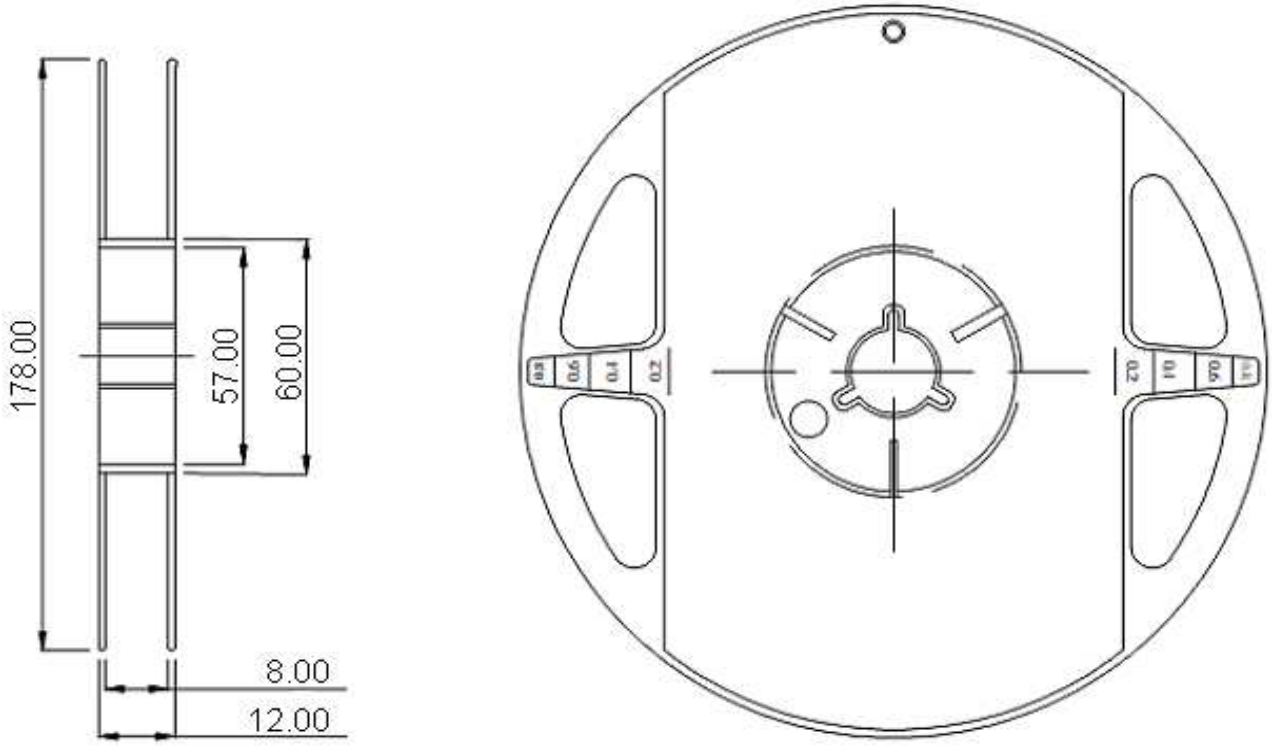
					Mini PLCC2 SMD LED 2,0x1,4 ***Pure-Green***		
					Part No.:	**M11F4002**	
					Customer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	25.02.2011
APPD:	Ping			FINISH	Hui	Sheet	5 from 9

Packing Specifications



Unit: mm
Tolerance: ±0.10 mm

Reel Specifications



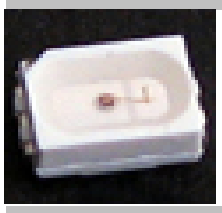
Mini PLCC2 SMD LED 2,0x1,4

Pure-Green

Part No.: **M11F4002**

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	25.02.2011
APPD:	Ping			FINISH	Hui	Sheet	6 from 9

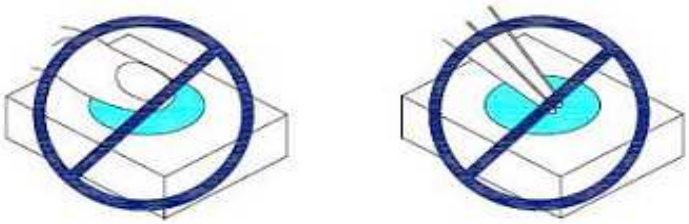


Handling Precautions

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.

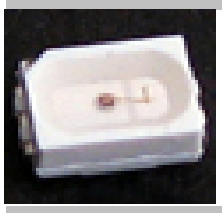
1. Handle the component along the side surfaces by using forceps or appropriate tools

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.

					Mini PLCC2 SMD LED 2,0x1,4		
					Pure-Green		
					Part No.:	**M11F4002**	
					Customer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	25.02.2011
APPD:	Ping			FINISH	Hui	Sheet	7 from 9

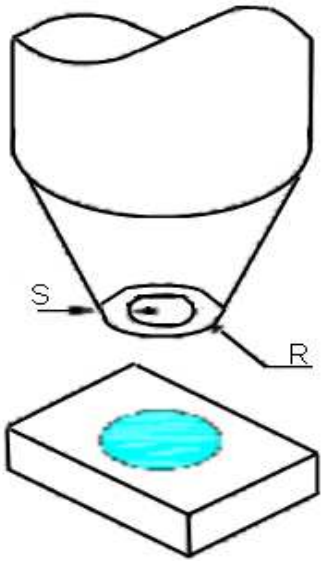


Handling Precautions

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.

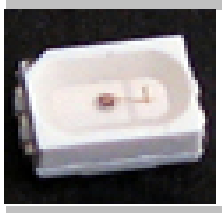


Mini PLCC2 SMD LED 2,0x1,4
Pure-Green

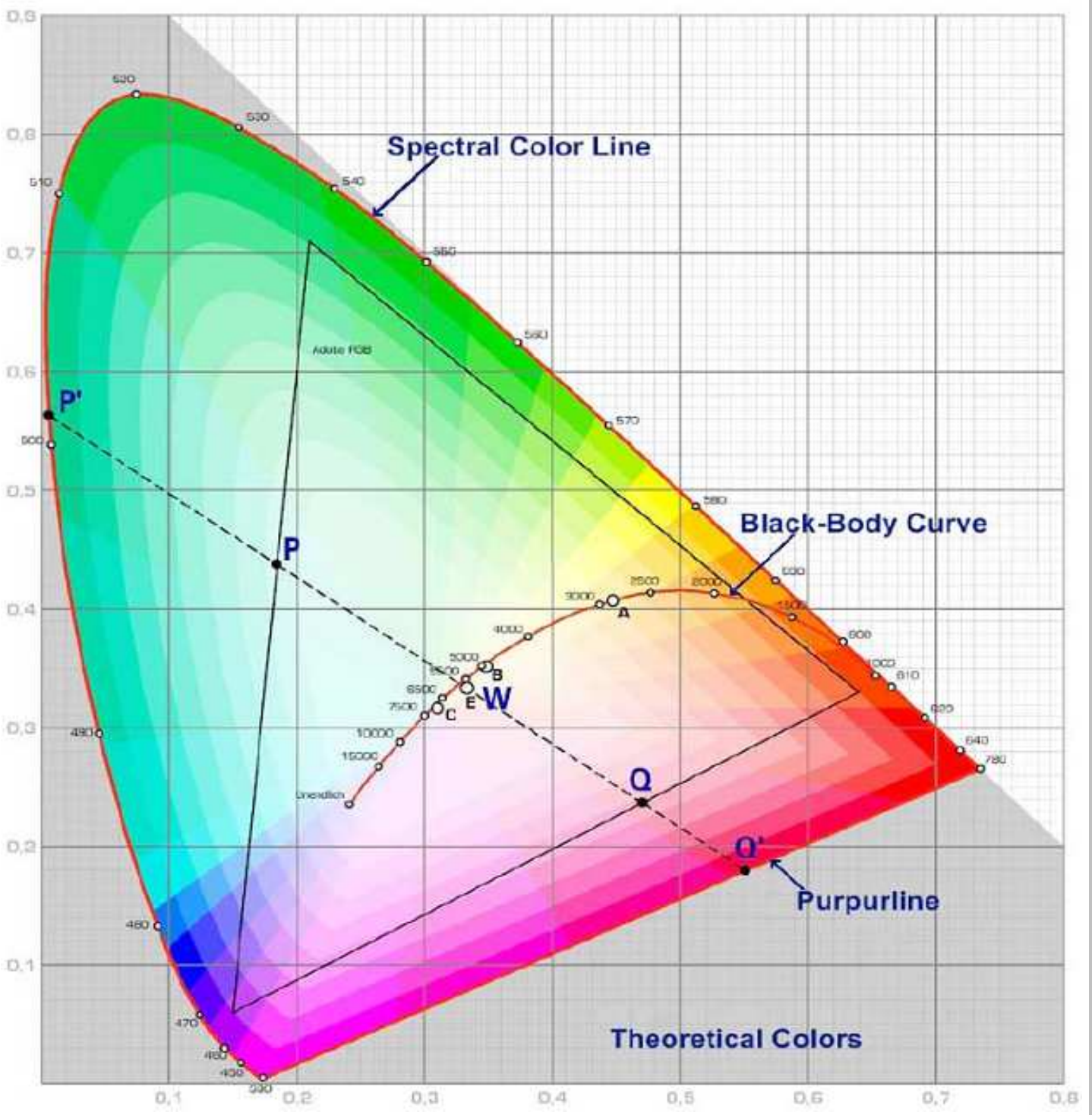
Part No.: **M11F4002**

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	25.02.2011
APPD:	Ping			FINISH	Hui	Sheet	8 from 9



Color table curve



Mini PLCC2 SMD LED 2,0x1,4	
Pure-Green	
Part No.:	**M11F4002**
Customer:	

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	25.02.2011
APPD:	Ping			FINISH	Hui	Sheet	9 from 9