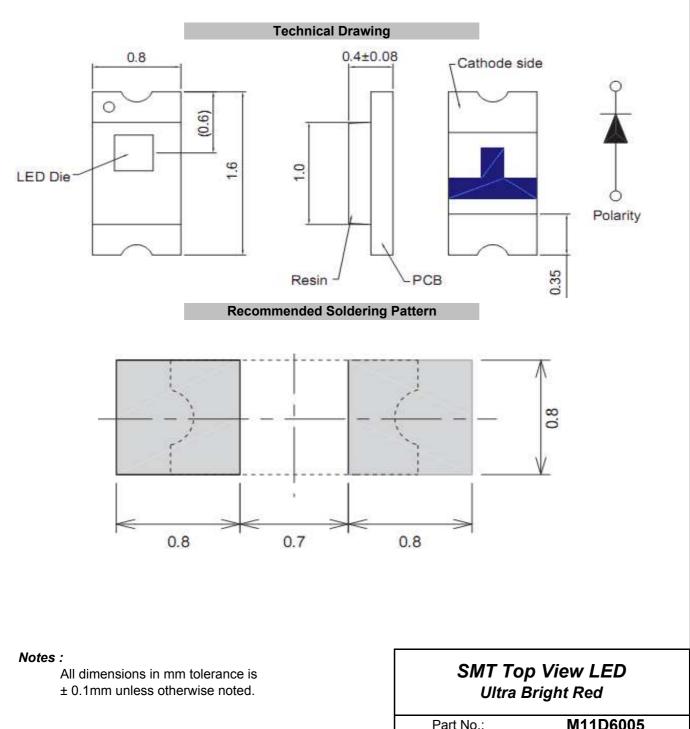




Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys



					T alt NO.		50005		
					Custome	er:			
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009		
APPD:	Ping			FINISH	Dia	Sheet	1 from 9		
	Copyright by EDCON-COMPONENTS								

www.edcon-components.com





Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AllnGaP	Unit
Power Dissipation	PD	72	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}	-30 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		Ultra Bright Red					
Material		AllnGaP					
Forward Voltage	typ.	1.9	V _F				
r orward voltage	max.	2.4	V _F				
Wavelength	λD	632	nm				
•	λP	645	nm				
typ.	Δλ	22	nm				
Color Temperature	min.		K				
	max.		K				
Luminous Intensity *	min.	30	mcd				
Lumnous intensity	typ.	45	mcd				
Reverse Current	max.		μA				
Viewing Angle	2Θ1/2	140					

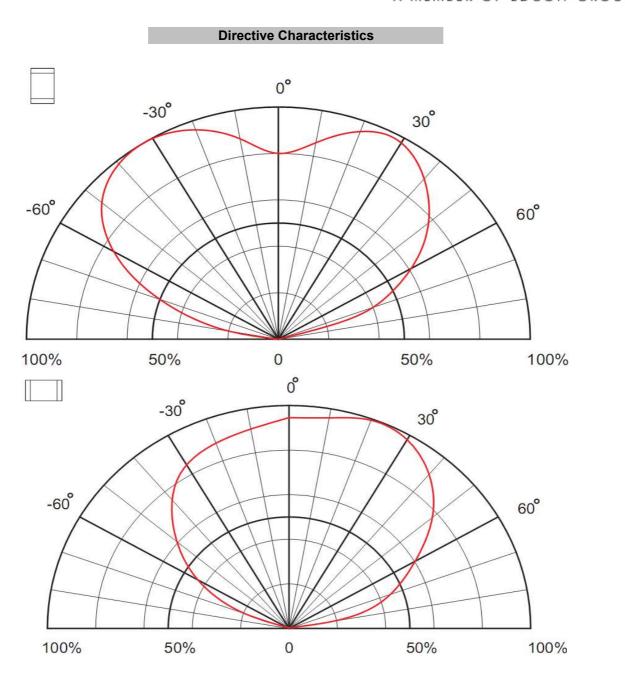
* Per NIST standards

SMT Top View LED Ultra Bright Red

					Part No.	.: M11	M11D6005	
	Customer:		er:					
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009	
APPD:	Ping			FINISH	Dia	Sheet	2 from 9	
Copyright by EDCON-COMPONENTS								





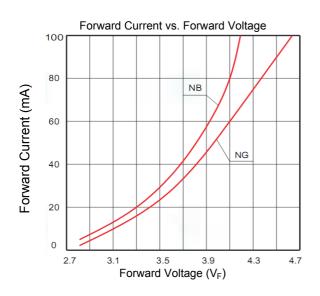


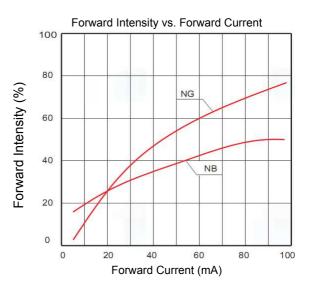
					SMT Top View LED Ultra Bright Red		
					Part No.: M11D6005		
					Custome	er:	
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	3 from 9
		NENTS					

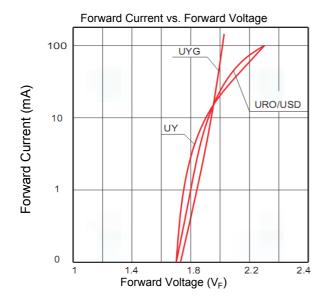


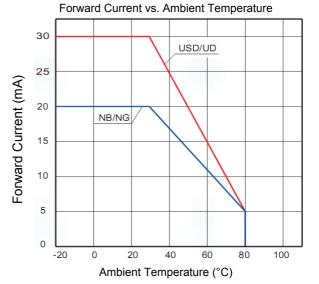


Curvs









					SMT Top View LED Ultra Bright Red		
					Part No.: M11D6005		
					Customer:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	4 from 9

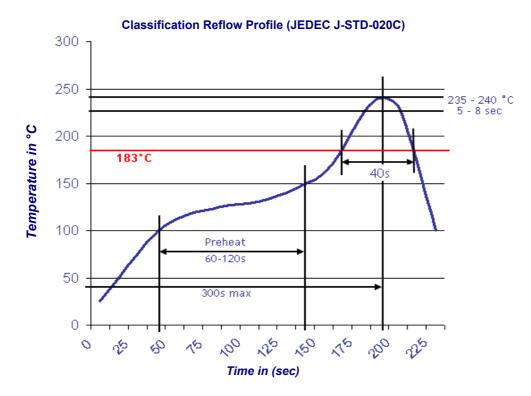
www.edcon-components.com





Solder Condition

Lead Free Solder

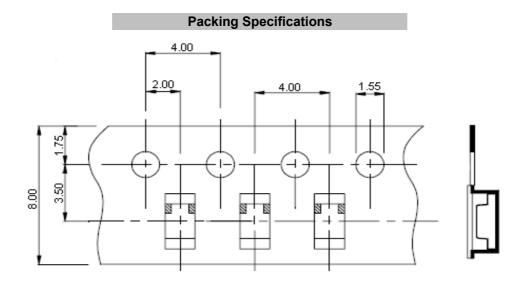


SMT Top View LED Ultra Bright Red

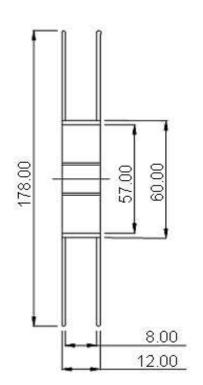
				Part No.	: M1 ′	M11D6005	
Customer:							
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	5 from 9
Copyright by EDCON-COMPONENTS							

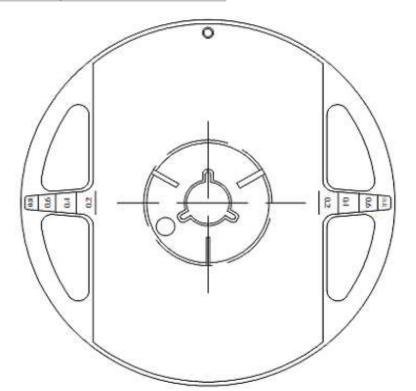






Reel Specifications





SMT Top View LED Ultra Bright Red

					Part No.:	- M1 ⁻	1D6005
					Customer:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	6 from 9
Copyright by EDCON-COMPONENTS							

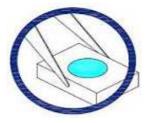




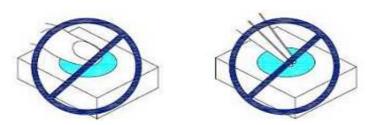
Handling Precautions

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.

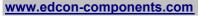


3. Do not stack together assembled PCBs containing exposed LEDs. Outside impact may scratch the silicone lens or damage the internal circuitry.



SMT Top View LED Ultra Bright Red

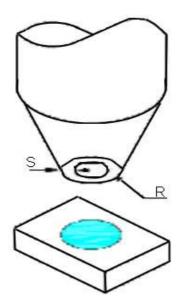
			Part No.	.: M11I	D6005		
	Customer:			er:			
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	7 from 9
Copyright by EDCON-COMPONENTS							







- 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 Top View LED Ultra Bright Red

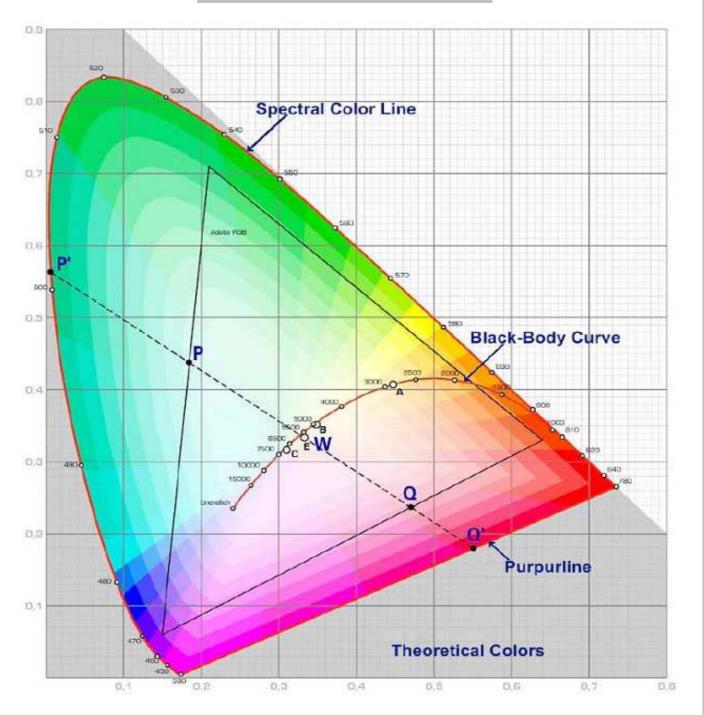
			Part No.	.: M11	D6005		
		Custome	er:				
Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009	
Ping			FINISH	Dia	Sheet	8 from 9	
Copyright by EDCON-COMPONENTS							

DRW: APPD:





Color table curve



				SMT Top View LED Ultra Bright Red			
				Part No.: M11D6005		D6005	
				Custome	er:		
Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009	
Ping			FINISH	Dia	Sheet	9 from 9	
		Converient to C	DOON COMPO	NENTO			

DRW: APPD:

Copyright by EDCON-COMPONENTS