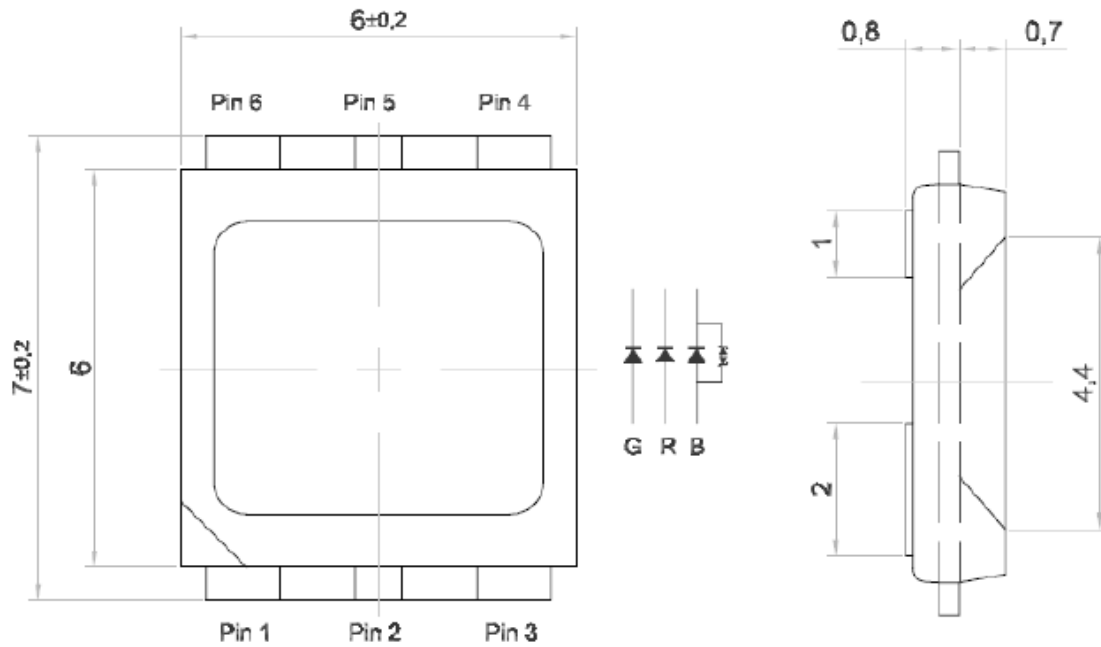


**SPECIFICATION** **CSH66R3GT2B2C**
**Description**

- \*1.5W Tri Color LED
- \*6.0mmX6.0mm Package
- \*Lens Color: Water Clear
- \*RoHS Compliant

**PACKAGE OUTLINES**

**Notes:**

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSH66R3GT2B2C	InGaAlP	Red	Water Clear	125°
	InGaN	Green		
	InGaN	Blue		



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**ABSOLUTE MAXIMUM RATINGS**
**(TA=25°C)**

Parameter	Symbol	Max Rating			Unit
		Red	Green	Blue	
Forward Current	I <sub>F</sub>	150			mA
Peak Pulsing Current (1/10 duty f = 10KHz)	I <sub>FP</sub>	200			mA
ESD Threshold (HBM)		2			kV
Junction Temperature		125	150	150	°C
Operating Temperature Range	T <sub>OP</sub>	-40~+100			°C
Storage Temperature Range	T <sub>STG</sub>	-40~+100			°C
Soldering Temperature	T <sub>SOL</sub>	Max 260°C for 5 sec Max			

**OPTICAL-ELECTRICAL CHARACTERISTICS**
**(TA=25°C)**

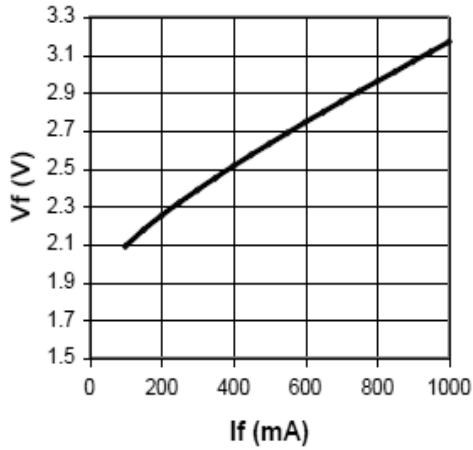
Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 120mA	R	3550	4500	-	mcd
			G	3550	5600	-	
			B	1125	1400	-	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 120mA	R	-	2.3	2.8	V
			G	-	3.5	4.0	
			B	-	3.2	3.6	
Viewing Angle at 50% I <sub>v</sub>	2θ <sub>1/2</sub>	I <sub>F</sub> = 120mA	-	-	125	-	Deg
Dominant Wavelength	λ <sub>P</sub>	I <sub>F</sub> = 120mA	R	-	625	-	nm
			G		525		
			B		465		

\*Tolerance of viewing angle: -10 / +5 deg.

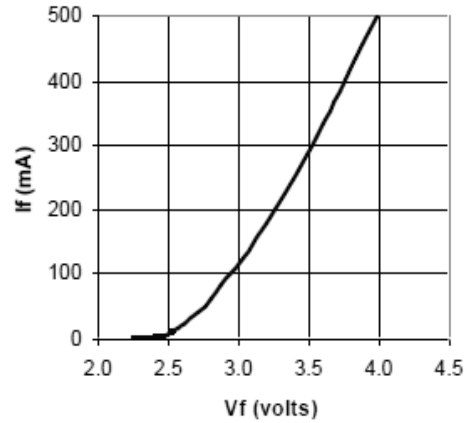

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**OPTICAL CHARACTERISTIC CURVES**

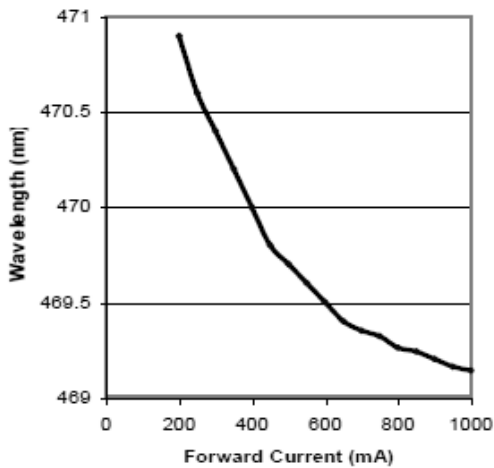
Forward Current vs. Forward Voltage  
**Red**



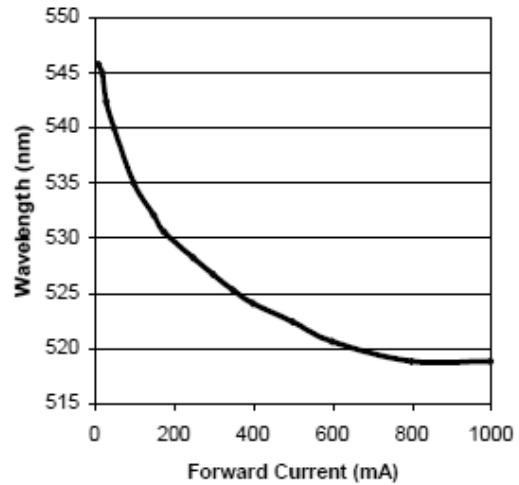
Forward Current vs. Forward Voltage  
**True Green & Blue**



Wavelength vs. Forward Current  
**Blue**



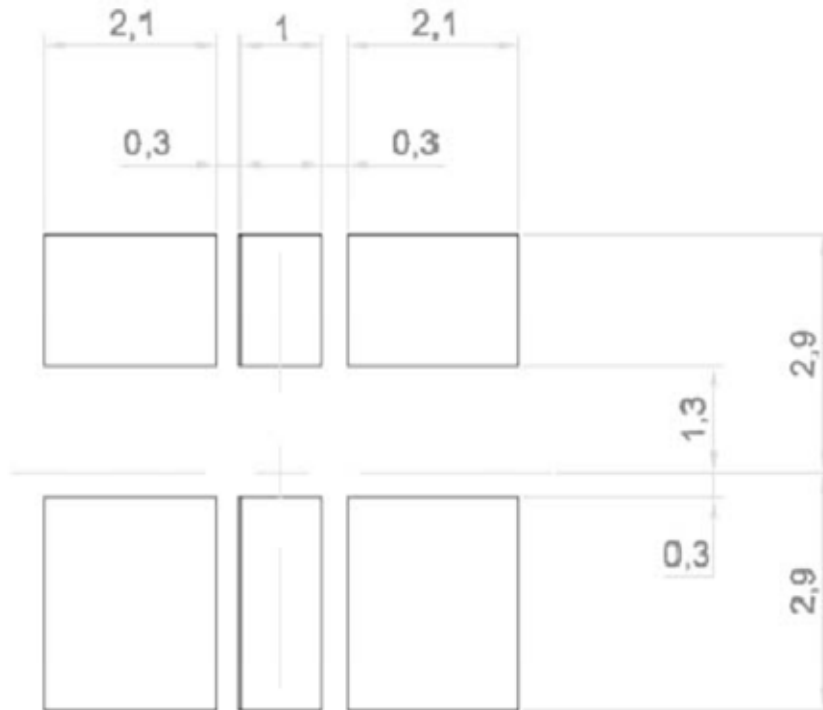
Wavelength vs. Forward Voltage  
**True Green**



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## RECOMMENDED SOLDER PAD DESIGN

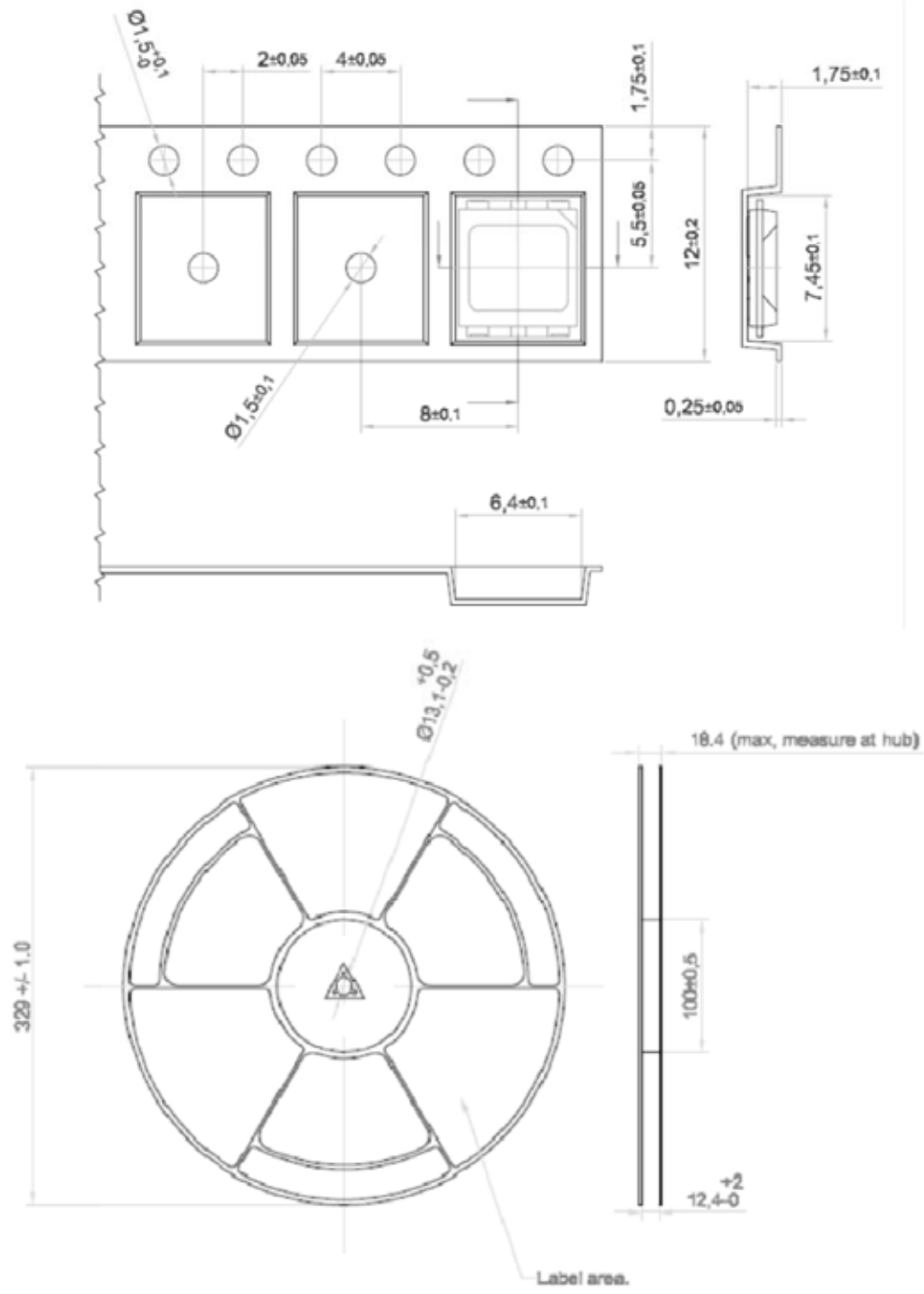
Notes: Metal core circuit board (MCPCB) is highly recommended for applications



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## TAPING DIMENSION AND ORIENTATION

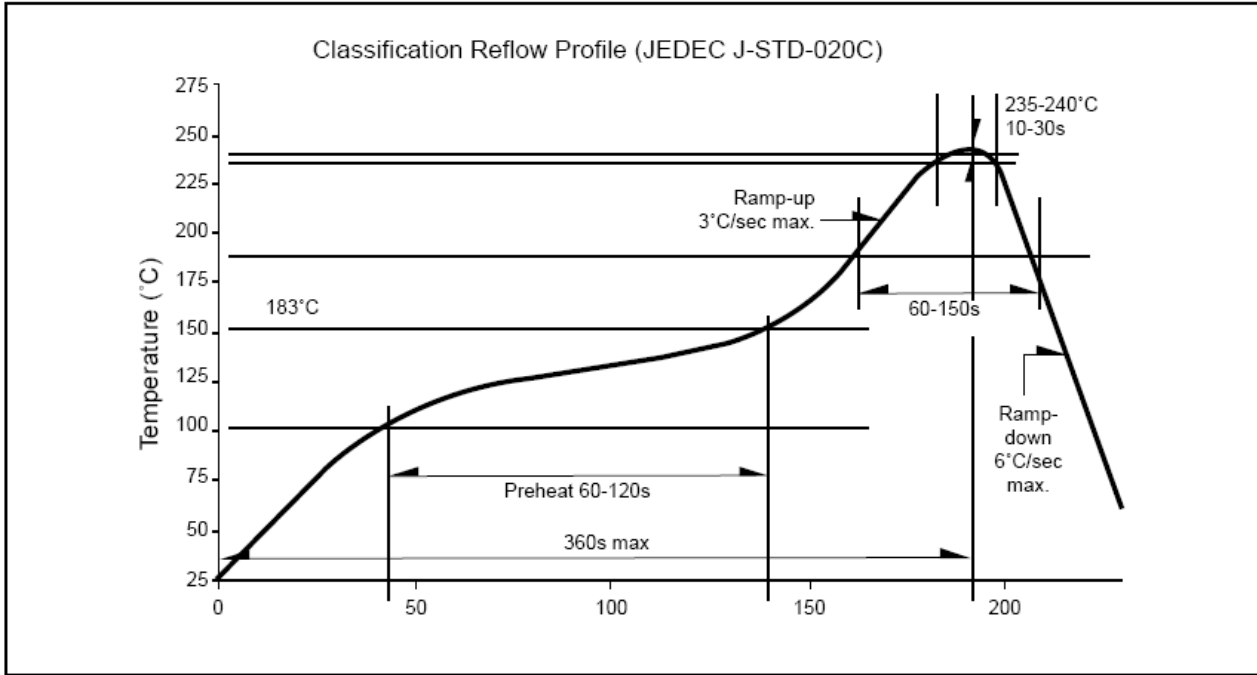
Reels come in quantity of 2,000 units. Reel diameter is 330mm.



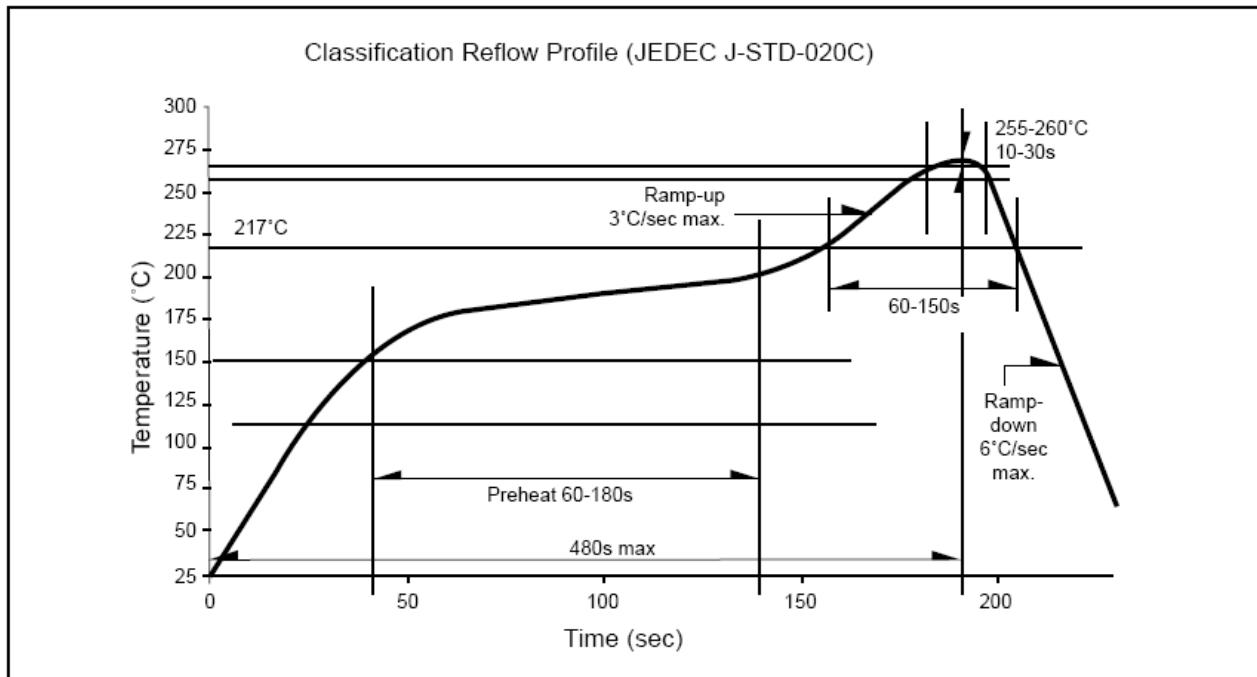
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# SOLDERING CONDITIONS

## RECOMMENDED Sn-PB IR-Reflow Soldering Profile



## RECOMMENDED Pb-Free Soldering Profile



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