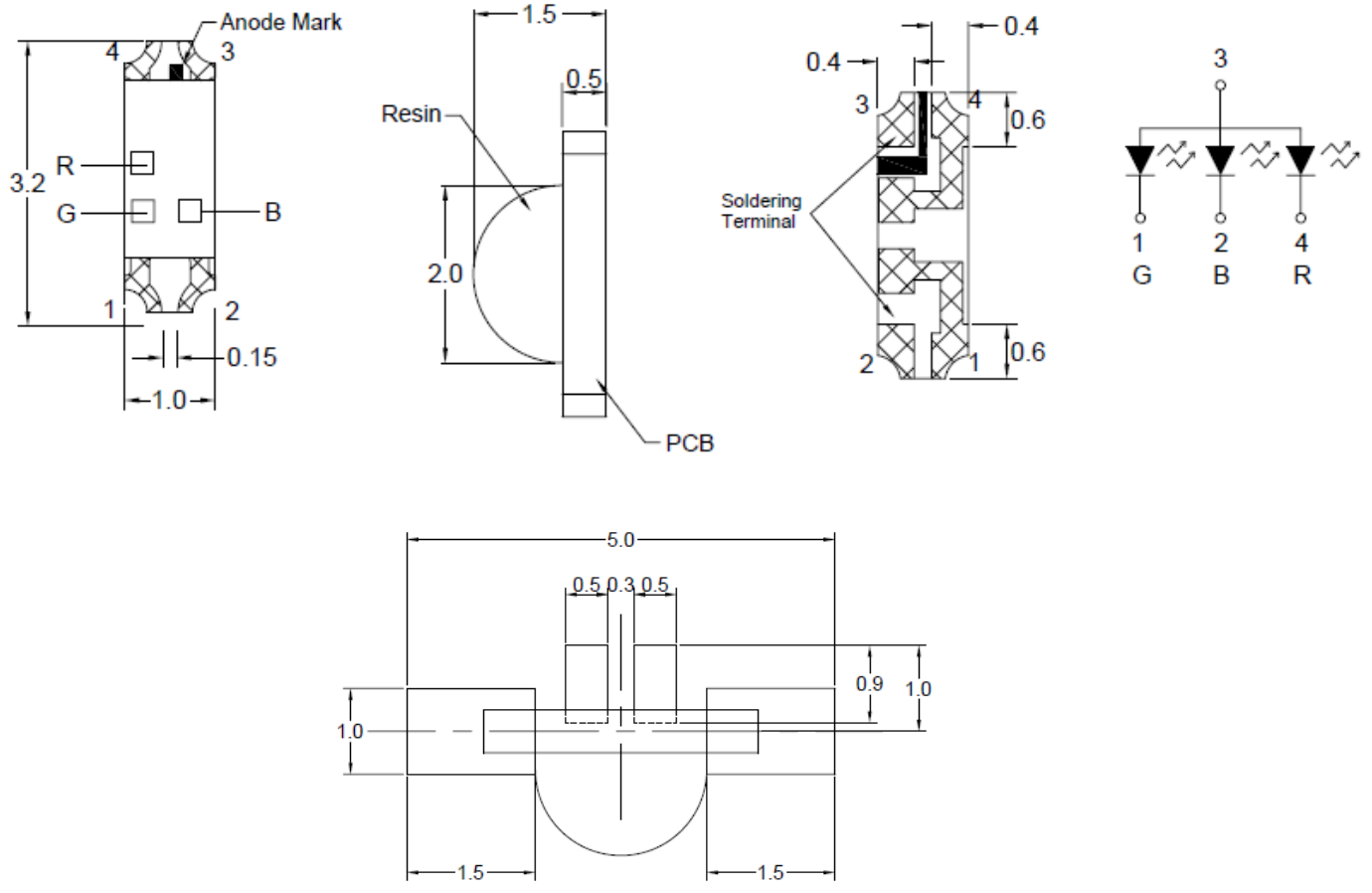


SPECIFICATION **CSRT125R2GT2B2C-1**
PACKAGE OUTLINES


- 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
CSRT125R2GT2B2C-1	InGaAlP	Red	Water Clear	120°
	InGaN	True Green	Water Clear	120°
	InGaN	Blue	Water Clear	120°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating		Unit
		Blue/ Green	Red	
Forward Current	IF	20	30	mA
Reverse Voltage	VR	5	5	V
Power Dissipation	Pd	80	72	mW
Operating Temperature Range	TOP	-40~+100		°C
Storage Temperature Range	TSTG	-40~+100		°C
Peak Pulsing Current (tp ≤ 10 μs, duty cycle = 0.005)	IFP	100	130	mA

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	Iv	IF = 20mA	Red	50	80	-	mcd
			Green	200	450	-	
			Blue	50	100	-	
Forward Voltage	VF	IF = 20mA	Red	-	2.0	2.4	V
			Green	-	3.1	3.6	
			Blue	-	3.1	3.6	
Viewing Angle at 50% Iv	2θ1/2	IF = 20mA	-	-	120	-	Deg
Dominant Wavelength	λD	IF = 20mA	Red	-	630	-	nm
			Green	-	525	-	
			Blue	-	470	-	

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

*Tolerance of forward voltage is -/+ 0.05V

*Tolerance of luminous intensity -/+ 1nm


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TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (RED)

Fig.1 Forward current vs. Forward Voltage

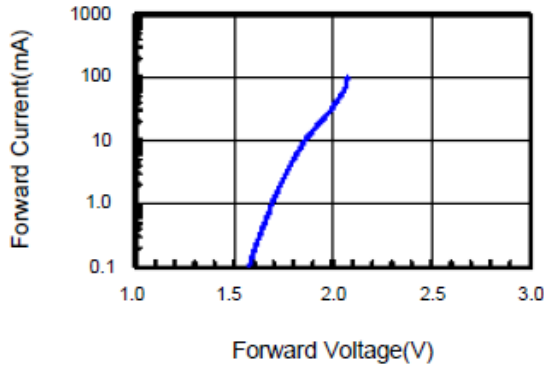


Fig.2 Relative Intensity vs. Forward Current

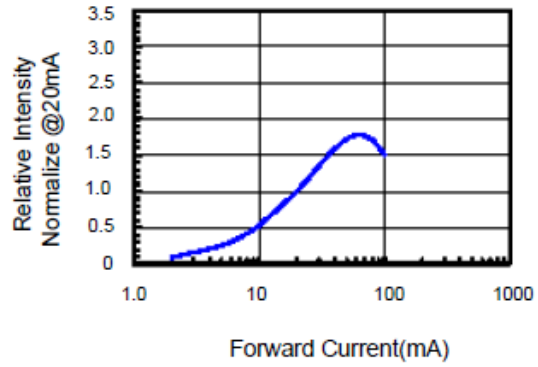


Fig.3 Forward Voltage vs. Temperature

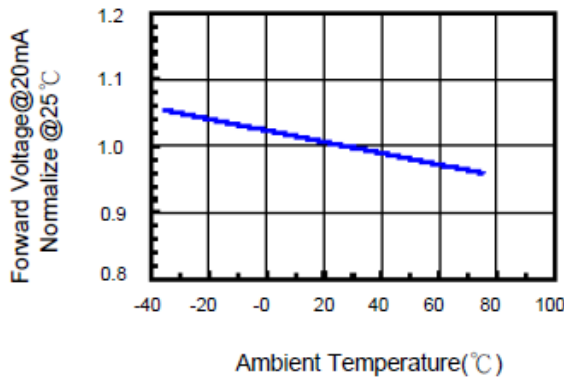


Fig.4 Relative Intensity vs. Temperature

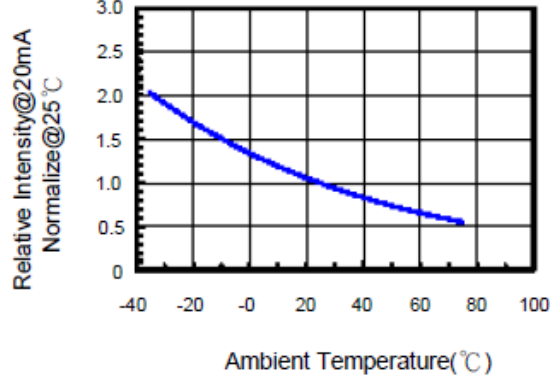


Fig.5 Relative Intensity vs. Wavelength

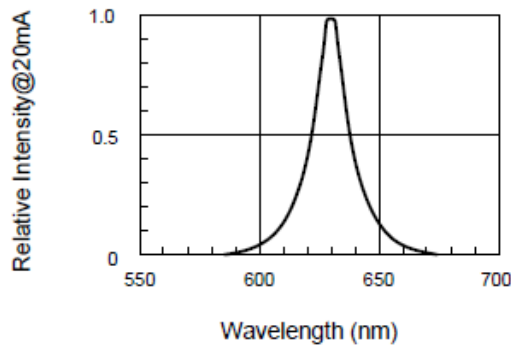
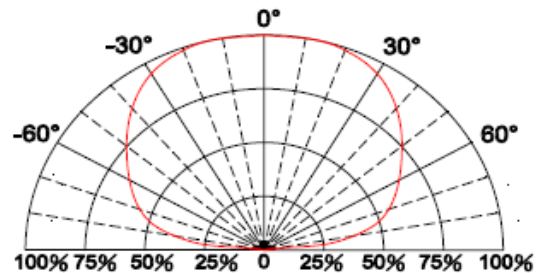


Fig.6 Directive Radiation



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TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (GREEN)

Fig.1 Forward current vs. Forward Voltage

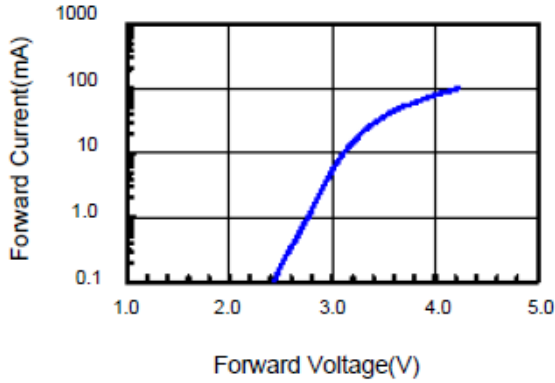


Fig.2 Relative Intensity vs. Forward Current

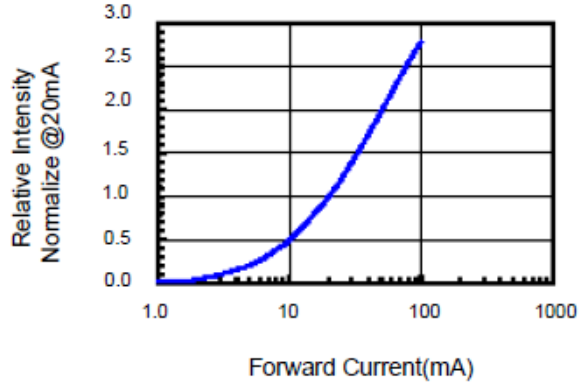


Fig.3 Forward Voltage vs. Temperature

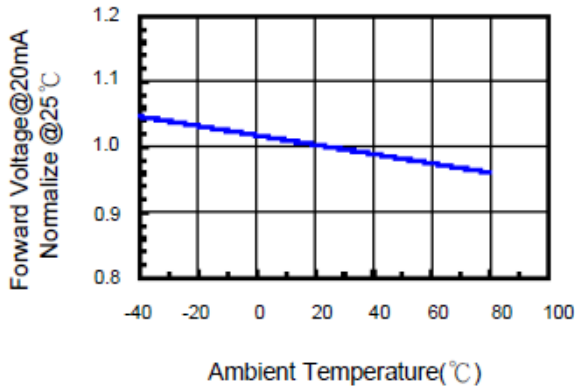


Fig.4 Relative Intensity vs. Temperature

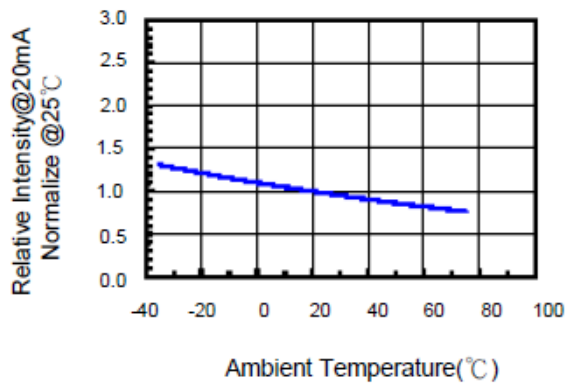


Fig.5 Relative Intensity vs. Wavelength

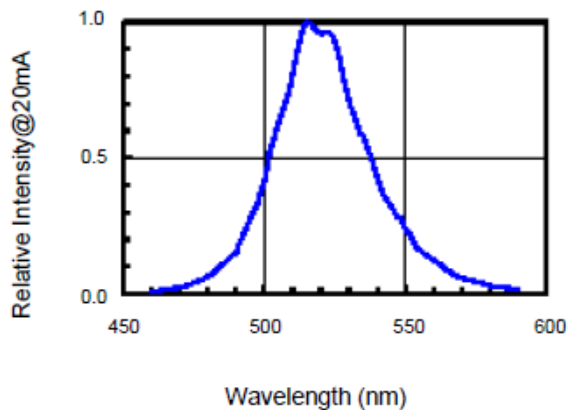
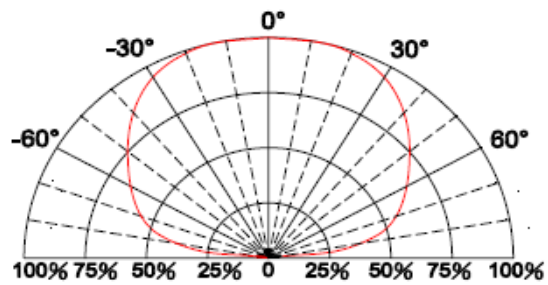


Fig.6 Directive Radiation



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TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (BLUE)

Fig.1 Forward current vs. Forward Voltage

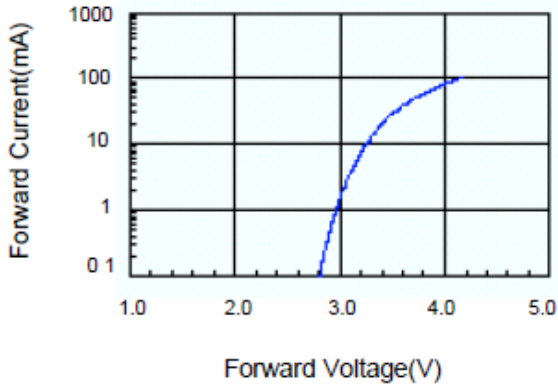


Fig.2 Relative Intensity vs. Forward Current

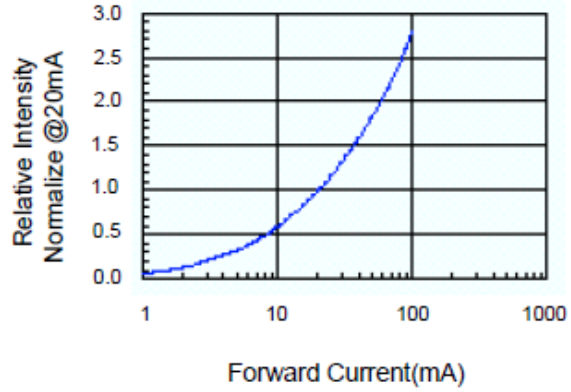


Fig.3 Forward Voltage vs. Temperature

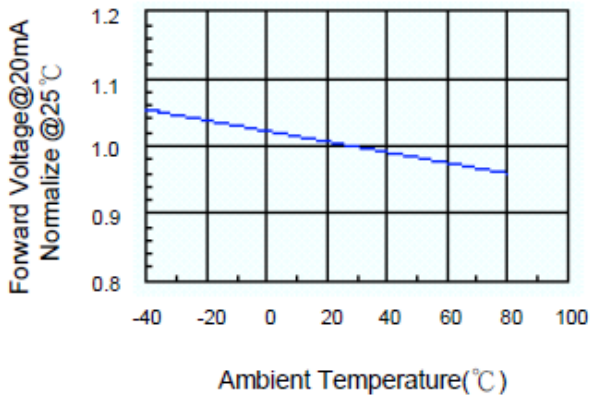


Fig.4 Relative Intensity vs. Temperature

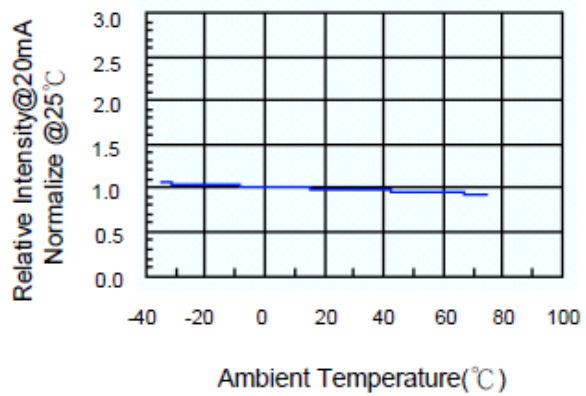


Fig.5 Relative Intensity vs. Wavelength

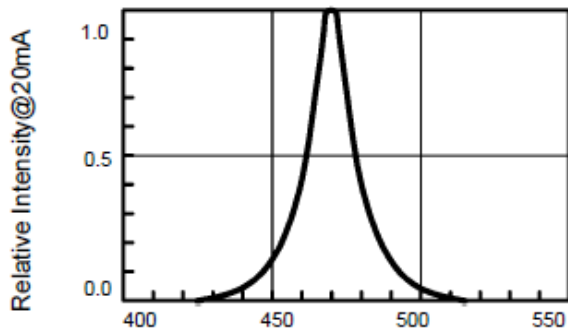
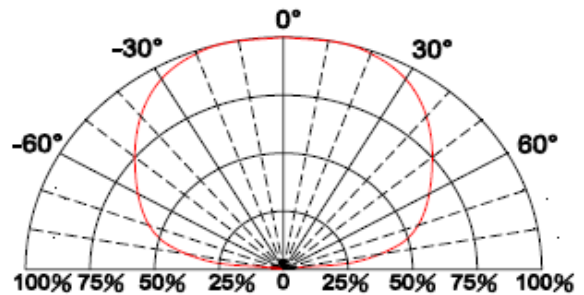


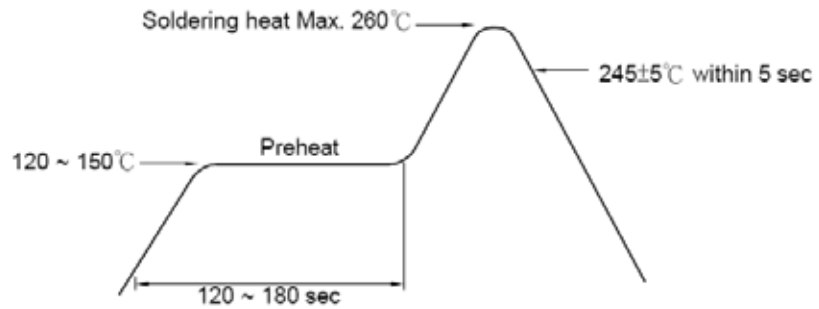
Fig.6 Directive Radiation



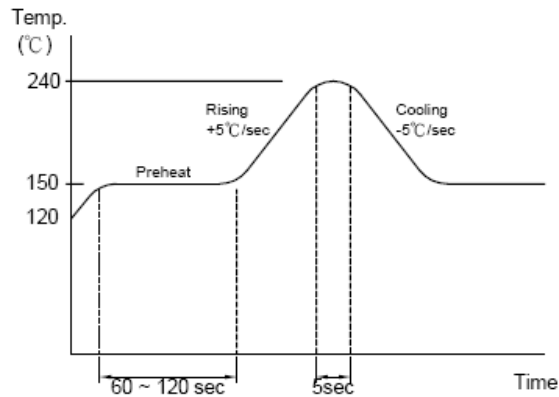
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SOLDERING CONDITIONS

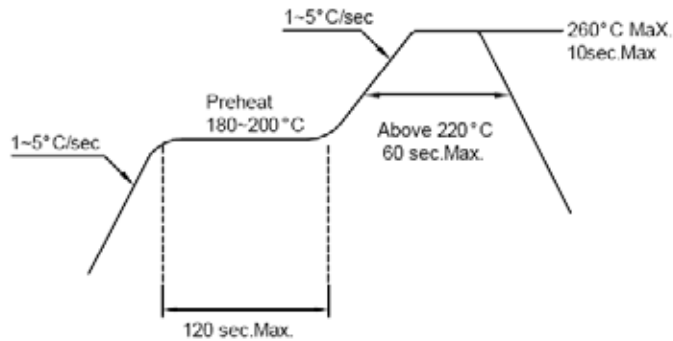
1. Hand Solder
Basic spec is $\leq 280^{\circ}\text{C}$ 3 sec one time only.
2. Wave Solder



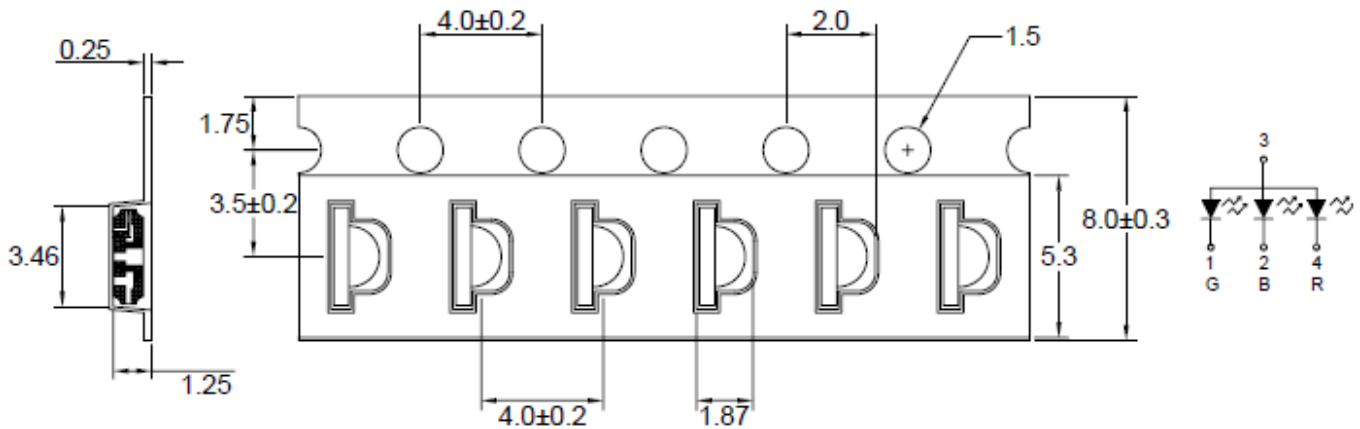
3-1. LEAD Reflow Solder



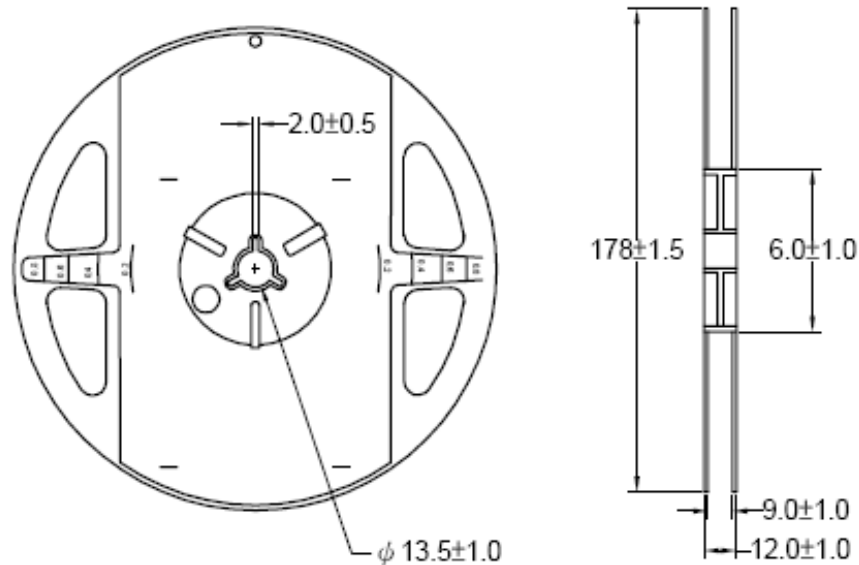
3-2. PB-Free Reflow Solder



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REEL PACKAGING
CARRIER TAPE DIMENSION


Note: The tolerances unless mentioned are ± 0.1 mm, Angle ± 0.5 ; Unit=mm

REEL DIMENSIONS


Notes:

1. 3000 pieces per reel.



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