

QTLP670C-2 HER
QTLP670C-7 AlGaAs Red

QTLP670C-3 Yellow QTLP670C-B Blue

QTLP670C-4 Green QTLP670C-W White

ABSOLUTE MAXIMUM RATINGS (T _A =25°C Unless otherwise specified)										
Parameter	Symbol	QTLP670C								
		-2	-3	-4	-7	-В	-W	- Units		
Continuous Forward Current	IF	30	30	30	30	30	30	mA		
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	160	160	160	180	100	100	mA		
Reverse Voltage (I _R = 10 μA)	V _R	5	5	5	5	5	5	V		
Power Dissipation	P _D	84	84	84	72	135	135	mW		
Operating Temperature	T _{OPR}	-40 to +85								
Storage Temperature	T _{STG}	-40 to +90								
Lead Soldering Time	T _{SOL}	260 for 5 sec								

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)											
Part Number	Cumbal		Condition								
	Symbol	-2	-3	-4	-7	-В	-W	Condition			
Luminous Intensity (mcd)											
Minimum		5	5	15	25	20	20	I _F = 20mA			
Typical	- I _V	10	10	25	40	30	30				
Forward Voltage (V)											
Maximum	\ \ \\	2.8	2.8	2.8	2.4	4.5	4.5	I _F = 20mA			
Typical	⊢ V _F	2.0	2.0	2.1	1.9	3.8	3.8				
Wavelength (nm)											
Peak	λ _P	635	585	565	660	430	_	I _F = 20mA			
Dominant	λ_{D}	630	590	570	645	465	_				
Chromatic Coordinate	x,y	_	_	_	_	_	x = 0.26 y = 0.28	I _F = 20mA			
Spectral Line Half Width (nm)	Δλ	45	35	30	20	65	_	I _F = 20mA			
Viewing Angle (°)	2O _{1/2}	120	120	120	120	120	120	I _F = 20mA			



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TYPICAL PERFORMANCE CURVES

Fig. 1 Forward Current vs. Forward Voltage

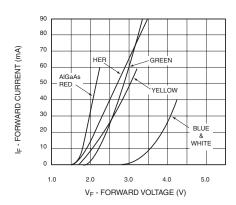


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

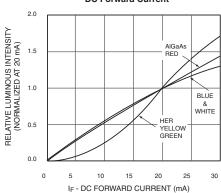


Fig. 3 Relative Intensity vs. Peak Wavelength

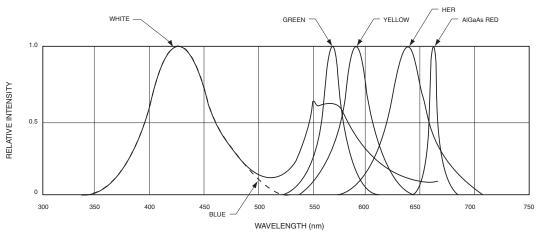


Fig.4 Radiation Diagram

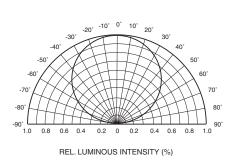
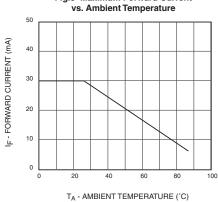


Fig.5 Maximum Forward Current



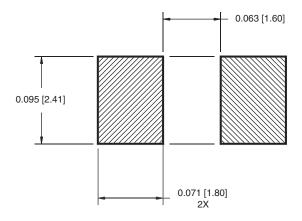


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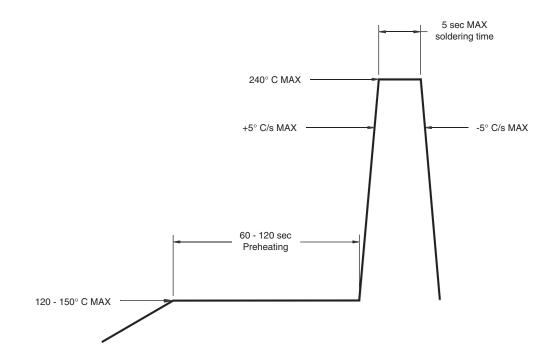
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RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE



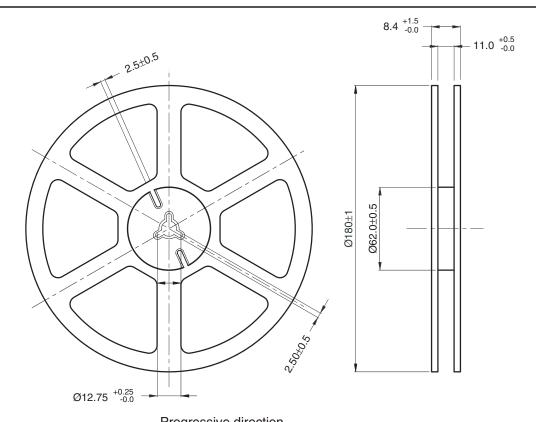


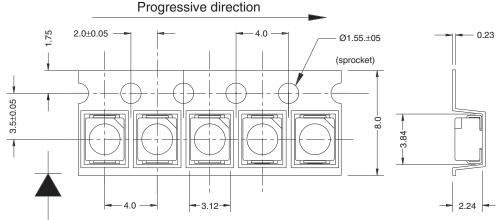
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TAPE AND REEL DIMENSIONS





for -2, -3, -4, -9, -B and -W

Polarity Dimensional tolerance is ± 0.1 mm unless otherwise specified

Angle: ± 0.5 Unit: mm

Polarity marks are on the sprocket side.

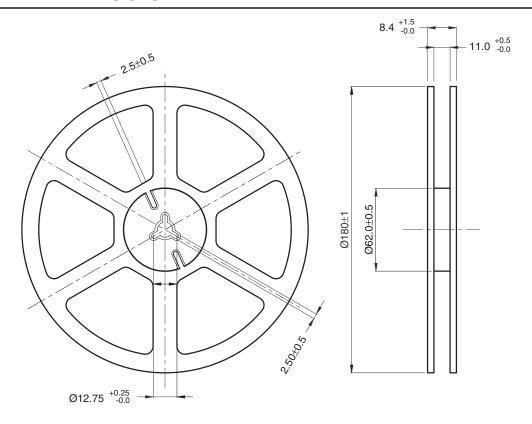


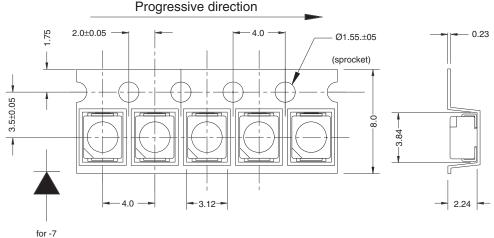
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TAPE AND REEL DIMENSIONS





Polarity

Dimensional tolerance is \pm 0.1mm unless otherwise specified

Angle: ± 0.5 Unit: mm

Polarity marks are on the opposite sprocket side.



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