

QTLP670C-2 HER
QTLP670C-7 AlGaAs Red

QTLP670C-3 Yellow QTLP670C-B Blue

QTLP670C-W White

PACKAGE DIMENSIONS 0.130 (3.3) 0.114 (2.9) 0.094 (02.4) 0.093 (2.1) 0.093 (2.1) 0.093 (2.1) 0.093 (2.1) 0.093 (2.1) 0.093 (2.1) 0.093 (2.1) 0.093 (2.1) 0.093 (2.1) 0.093 (2.1) 0.094 (02.4) 0.095 (0.15) 0.095 (0.15) 0.095 (0.15) 0.097 (0.7) 0.098 (0.15



APPLICATIONS

- Automotive interior lighting
- Status indication for consumer electronics and office equipment

DESCRIPTION

These surface mount LEDs are designed with flat top and sides for the ease of pick-and-place by automatic placement equipment. They are compatible with convective IR and vapor phase reflow soldering. The package size and configuration conform to EIA-535 BAAC standard specification for case size 3528 tantalum capacitor. These LEDs are ideal for backlighting and optical coupling into light pipes.

FEATURES

- GaN/SIC technology for -B and -W
- Wide viewing angle of 120°
- Water clear optics
- Moisture-proof packaging
- Available in 0.315" (8mm) width tape on 7" (178mm) diameter reel; 2,000 units per reel



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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	Symbol		Complision								
		-2	-3	-4	-7	-В	-W	Condition			
Luminous Intensity (mcd)											
Minimum	I _V	5	5	15	25	20	20	I _F = 20mA			
Typical		10	10	25	40	30	30				
Forward Voltage (V)											
Maximum	V _F	2.8	2.8	2.8	2.4	4.5	4.5	I _F = 20mA			
Typical		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	х,у	_	_	_	_	_	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 (°)	2Θ _{1/2}	120	120	120	120	120	120	I _F = 20mA			

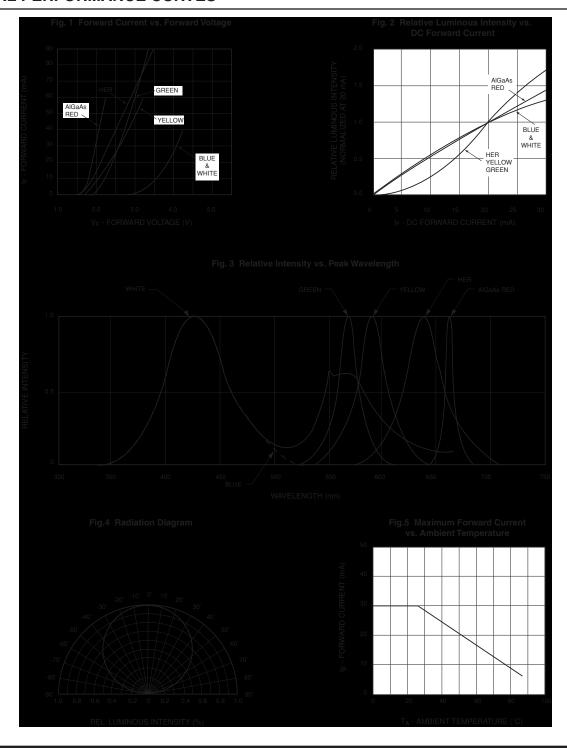


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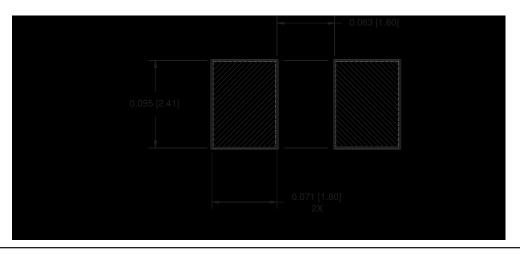
TYPICAL PERFORMANCE CURVES



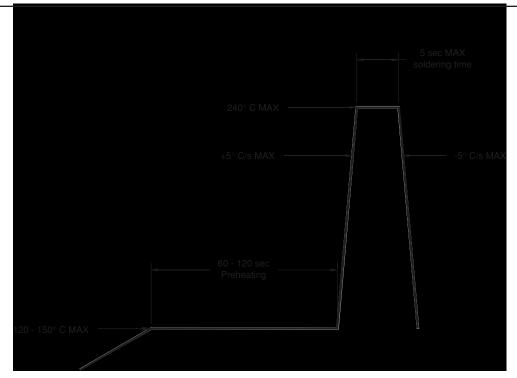


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RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE





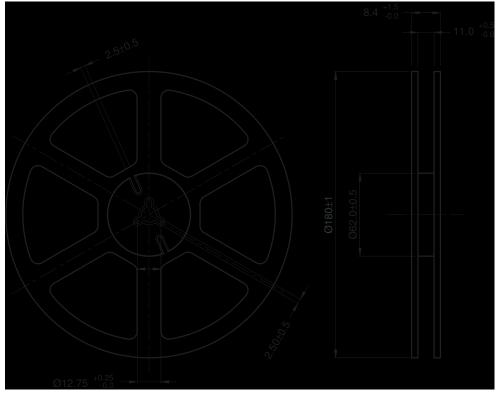
QTLP670C-2 HER

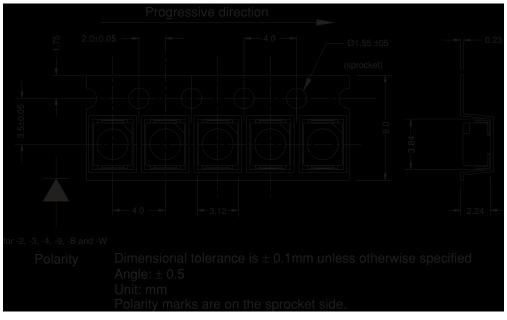
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TAPE AND REEL DIMENSIONS





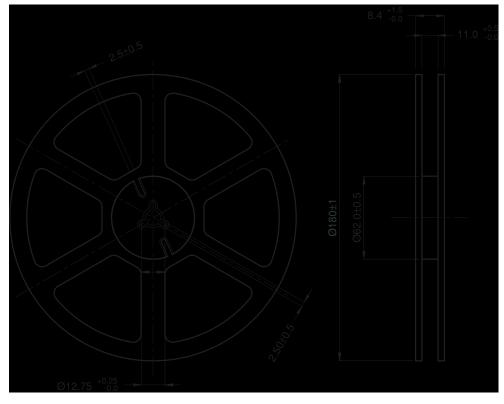


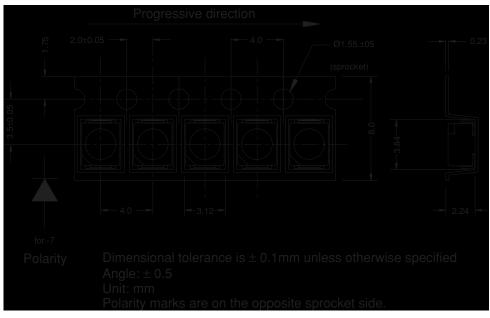
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