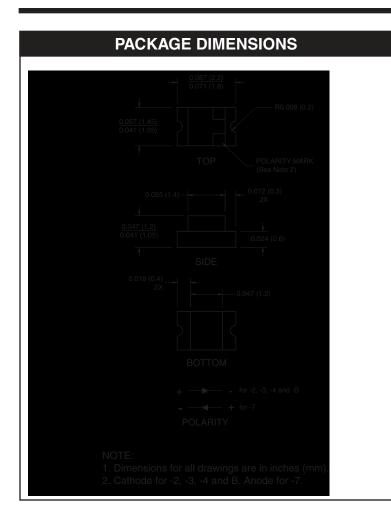


QTLP630C-2 HER
QTLP630C-7 AlGaAs Red

QTLP630C-3 Yellow QTLP630C-B Blue

QTLP630C-4 Green





APPLICATIONS

- Keypad backlighting
- · Push-button backlighting
- LCD backlighting

DESCRIPTION

These surface mount chip LEDs are designed to fit industry standard footprint. Low profile and wide viewing angle make these LEDs ideal choices for backlighting applications and panel illumination.

FEATURES

- Small footprint 2.0(L) X 1.25(W) X 1.1(H) mm
- Wide viewing angle of 140°
- · Water clear optics
- · Moisture-proof packaging
- Available in 0.315" (8mm) width tape on 7" (178mm) diameter reel; 2,000 units per reel



QTLP630C-2 HER

QTLP630C-3 Yellow

QTLP630C-4 Green

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QTLP630C-B Blue

ABSOLUTE MAXIMUM RATINGS (T _A =25°C Unless otherwise specified)										
Parameter	Symbol									
		-2	-3	-4	-7	-В	- Units			
Continuous Forward Current	I _F	30	30	30	30	30	mA			
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	160	160	160	180	100	mA			
Reverse Voltage (I _R = 10 μA)	V _R	5	5	5	5	5	V			
Power Dissipation	P _D	84	84	84	72	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	Cymhol		Condition							
	Symbol	-2	-3	-4	-7	-В	Condition			
Luminous Intensity (mcd)										
Minimum Typical	I _V	5 10	5 10	6 10	10 20	15 20	IF = 20mA			
Forward Voltage (V)										
Maximum Typical	V _F	2.8 2.0	2.8 2.0	2.8 2.1	2.4 1.9	4.5 3.8	IF = 20mA			
Wavelength (nm)										
Peak Dominant	l _P	635 630	585 590	565 570	660 645	430 465	IF = 20mA			
Spectral Line Half Width (nm)	D _l	45	35	30	20	65	IF = 20mA			
Viewing Angle (°)	2 _{U1/2}	140	140	140	140	140	IF = 20mA			



QTLP630C-2 HER

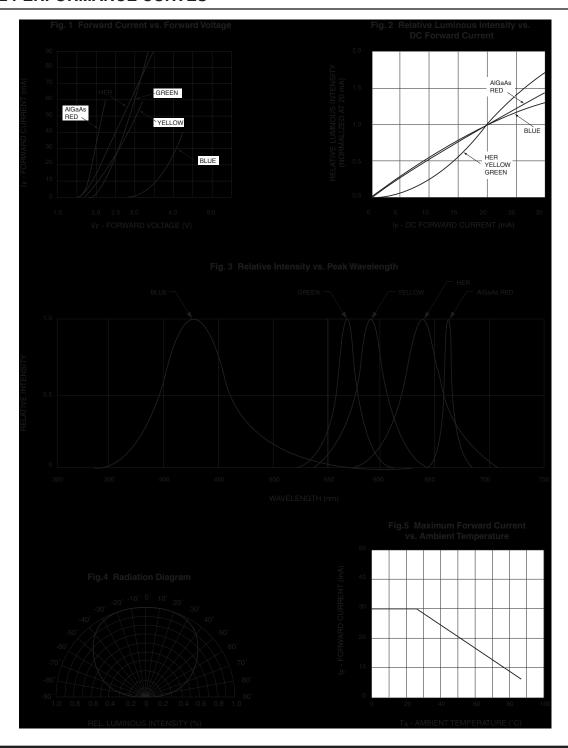
QTLP630C-3 Yellow

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TYPICAL PERFORMANCE CURVES



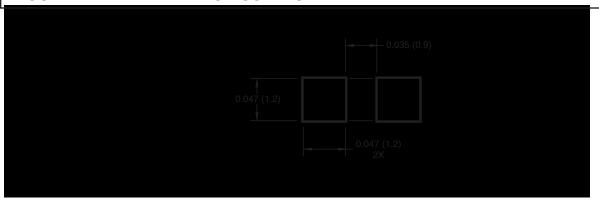


QTLP630C-2 HER QTLP630C-3 Yellow

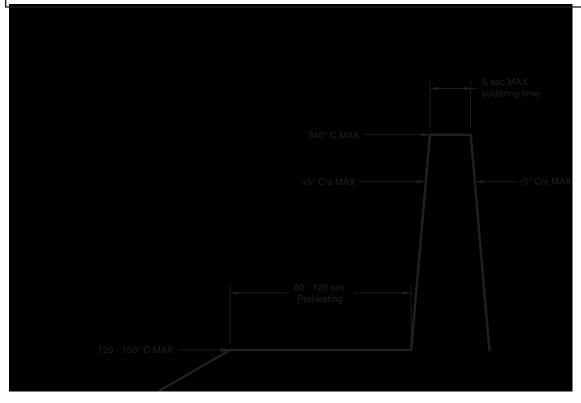
QTLP630C-4 Green

QTLP630C-7 AlGaAs Red QTLP630C-B Blue

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE





QTLP630C-2 HER

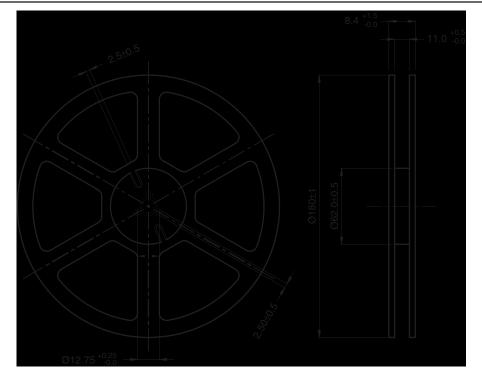
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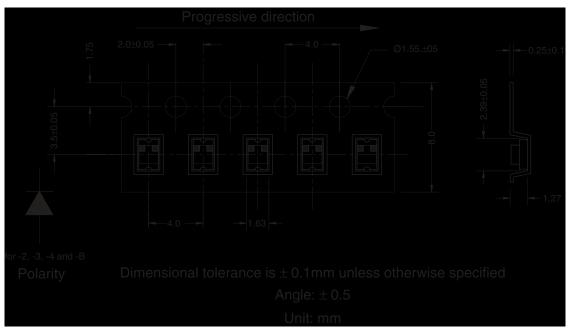
QTLP630C-4 Green

QTLP630C-7 AlGaAs Red

QTLP630C-B Blue

TAPE AND REEL DIMENSIONS







QTLP630C-2 HER

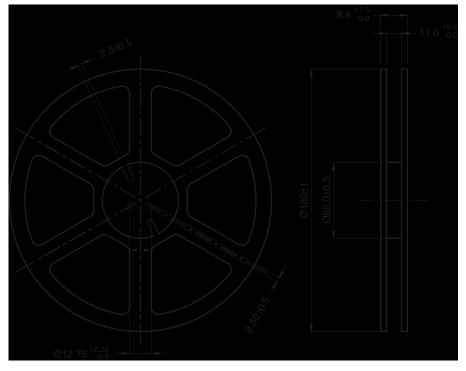
QTLP630C-3 Yellow

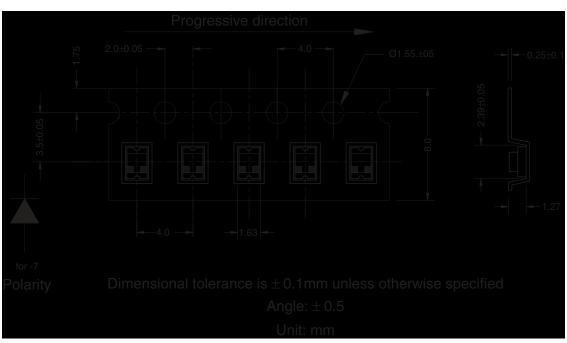
QTLP630C-4 Green

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TAPE AND REEL DIMENSIONS







QTLP630C-2 HER

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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.