

QTLP660C-R Red

QTLP660C-E Orange

QTLP660C-O Yellow-Orange

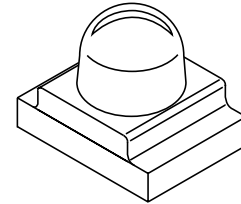
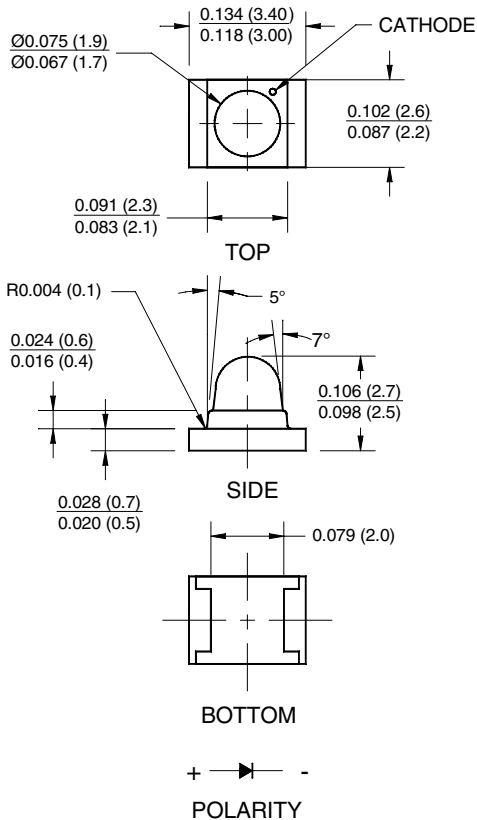
QTLP660C-Y Yellow

QTLP660C-AG Yellow-Green

QTLP660C-IG True Green

QTLP660C-IB Blue

## PACKAGE DIMENSIONS



NOTE:

Dimensions for all drawings are in inches (mm).

## APPLICATIONS

- Backlighting
- Status indication for consumer electronics and other equipment

## DESCRIPTION

These super bright surface mount chip LEDs are designed with a 1.8 mm dome lens that focuses the light output.

## FEATURES

- Small footprint - 3.2(L) X 2.4(W) X 2.6(H) mm
- AlInGaP technology for -R, -E, -O, -Y and -AG
- InGaN/SiC technology for -IG and -IB
- Narrow viewing angle of 30°
- Water clear optics
- Moisture-proof packaging
- Available in 0.315" (8mm) width tape on 7" (178mm) diameter reel; 2,000 units per reel

# SURFACE MOUNT LED LAMP SUPER BRIGHT 1.8 mm (Dome Lens)

QTLP660C-R Red

QTLP660C-E Orange

QTLP660C-O Yellow-Orange

QTLP660C-Y Yellow

QTLP660C-AG Yellow-Green

QTLP660C-IG True Green

QTLP660C-IB Blue

## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub> =25°C Unless otherwise specified)

Parameter	Symbol	QTLP660C					Units
		-R	-E	-O	-Y	-AG	
Continuous Forward Current	I <sub>F</sub>	30	30	30	25	30	mA
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I <sub>FM</sub>	160	160	160	120	160	mA
Reverse Voltage	V <sub>R</sub>	5	5	5	5	5	V
Power Dissipation	P <sub>D</sub>	72	72	72	60	72	mW
Operating Temperature	T <sub>OPR</sub>	-40 to +85					°C
Storage Temperature	T <sub>STG</sub>	-40 to +90					°C
Lead Soldering Time	T <sub>SOL</sub>	260 for 5 sec					°C

## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub> =25°C Unless otherwise specified)

Parameter	Symbol	QTLP660C		Units
		-IB	-IG	
Continuous Forward Current	I <sub>F</sub>	30	30	mA
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I <sub>FM</sub>	100	100	mA
Reverse Voltage	V <sub>R</sub>	5	5	V
Power Dissipation	P <sub>D</sub>	120	120	mW
Operating Temperature	T <sub>OPR</sub>	-40 to +85		°C
Storage Temperature	T <sub>STG</sub>	-40 to +90		°C
Lead Soldering Time	T <sub>SOL</sub>	260 for 5 sec		°C

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## ELECTRICAL / OPTICAL CHARACTERISTICS (T<sub>A</sub> =25°C)

Part Number	Symbol	QTLP660C					Condition
		-R	-E	-O	-Y	-AG	
Luminous Intensity (mcd)	I <sub>v</sub>	150	150	150	150	110	I <sub>F</sub> = 20mA
Minimum		400	400	400	400	160	
Typical							
Forward Voltage (V)	V <sub>F</sub>	2.4	2.4	2.4	2.4	2.4	I <sub>F</sub> = 20mA
Maximum		2.0	2.0	2.0	2.0	2.0	
Typical							
Wavelength (nm)	λ <sub>P</sub>	630	620	610	590	575	I <sub>F</sub> = 20mA
Peak		624	615	605	589	573	
Dominant	λ <sub>D</sub>						
Spectral Line Half Width (nm)	Δλ	20	18	18	15	20	I <sub>F</sub> = 20mA
Viewing Angle (°)	2Θ <sub>1/2</sub>	30	30	30	30	30	I <sub>F</sub> = 20mA

## ELECTRICAL / OPTICAL CHARACTERISTICS (T<sub>A</sub> =25°C)

Part Number	Symbol	QTLP660C		Condition
		-IB	-IG	
Luminous Intensity (mcd)	I <sub>v</sub>	110	500	I <sub>F</sub> = 20mA
Minimum		150	900	
Typical				
Forward Voltage (V)	V <sub>F</sub>	4.0	4.0	I <sub>F</sub> = 20mA
Maximum		3.5	3.5	
Typical				
Wavelength (nm)	λ <sub>P</sub>	465	520	I <sub>F</sub> = 20mA
Peak		470	525	
Dominant	λ <sub>D</sub>			
Spectral Line Half Width (nm)	Δλ	25	35	I <sub>F</sub> = 20mA
Viewing Angle (°)	2Θ <sub>1/2</sub>	30	30	I <sub>F</sub> = 20mA

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## TYPICAL PERFORMANCE CURVES (QTLP660C-R, -E, -O, -Y and -AG)

Fig. 1 Forward Current vs. Forward Voltage

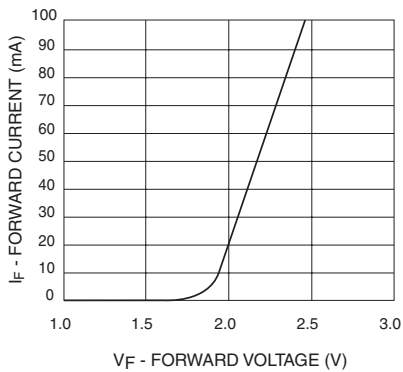


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

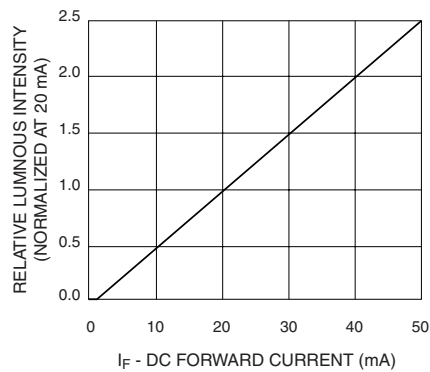


Fig. 3 Relative Intensity vs. Peak Wavelength

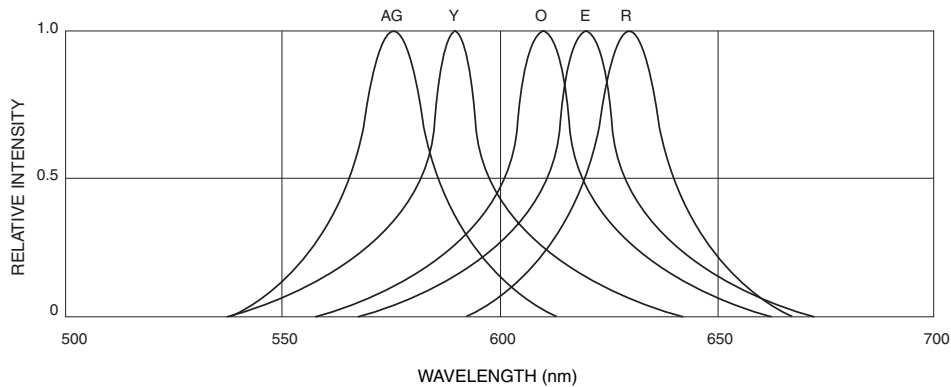


Fig. 4 Radiation Diagram

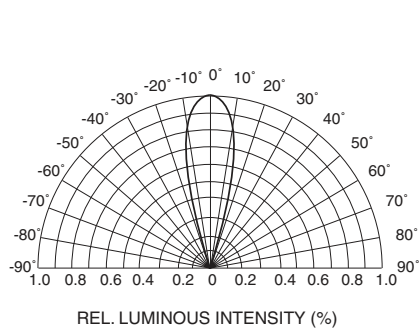
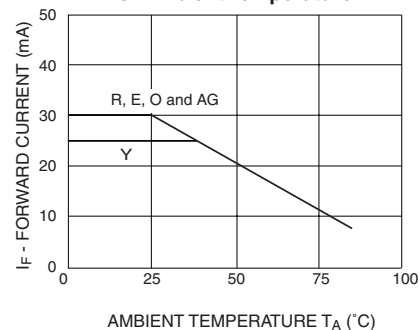


Fig. 5 Maximum Forward Current vs. Ambient Temperature



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QTLP660C-E Orange

QTLP660C-O Yellow-Orange

QTLP660C-Y Yellow

QTLP660C-AG Yellow-Green

QTLP660C-IG True Green

QTLP660C-IB Blue

## TYPICAL PERFORMANCE CURVES (QTLP660C-IG and IB)

Fig. 1 Forward Current vs. Forward Voltage

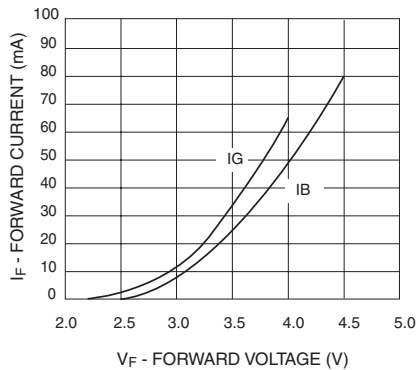


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

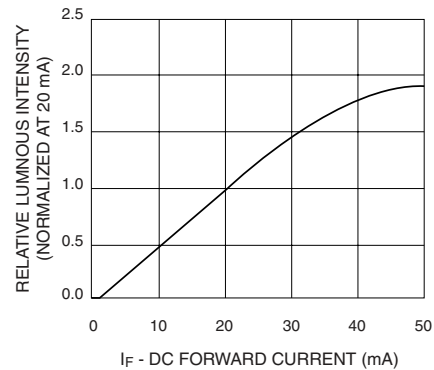


Fig. 3 Relative Intensity vs. Peak Wavelength

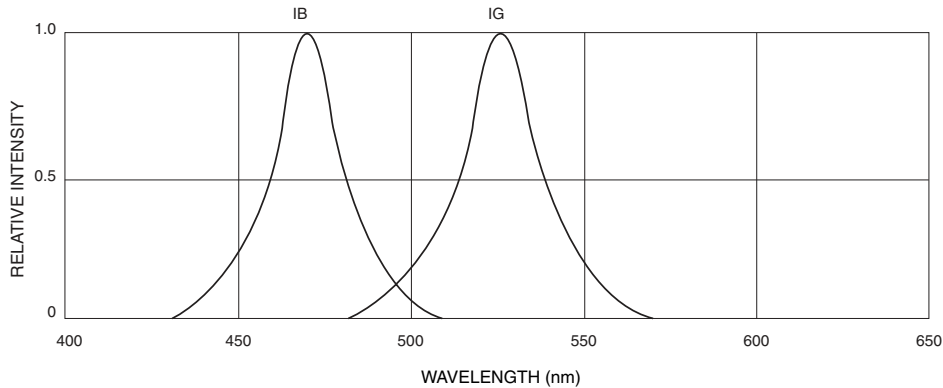


Fig.4 Radiation Diagram

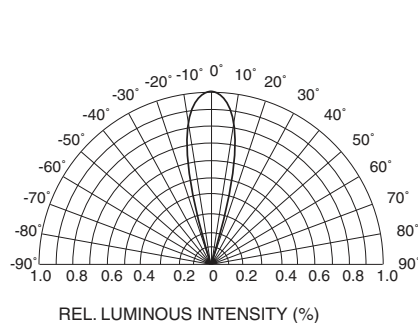
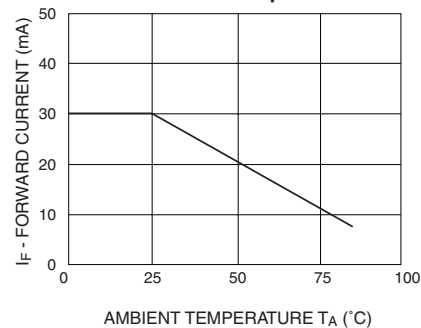


Fig.5 Maximum Forward Current vs. Ambient Temperature



# SURFACE MOUNT LED LAMP SUPER BRIGHT 1.8 mm (Dome Lens)

QTLP660C-R Red

QTLP660C-E Orange

QTLP660C-O Yellow-Orange

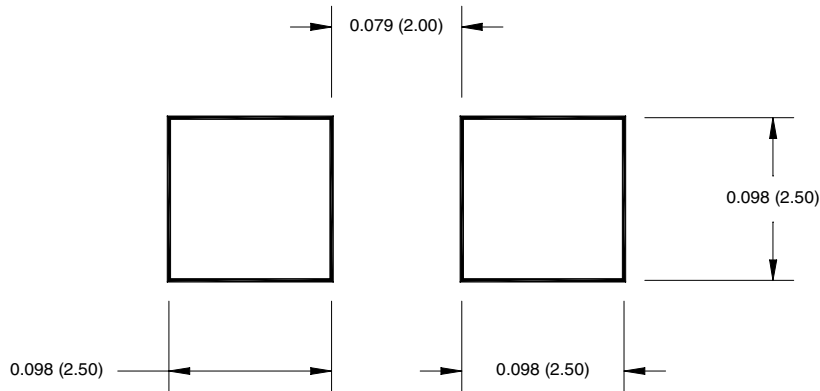
QTLP660C-Y Yellow

QTLP660C-AG Yellow-Green

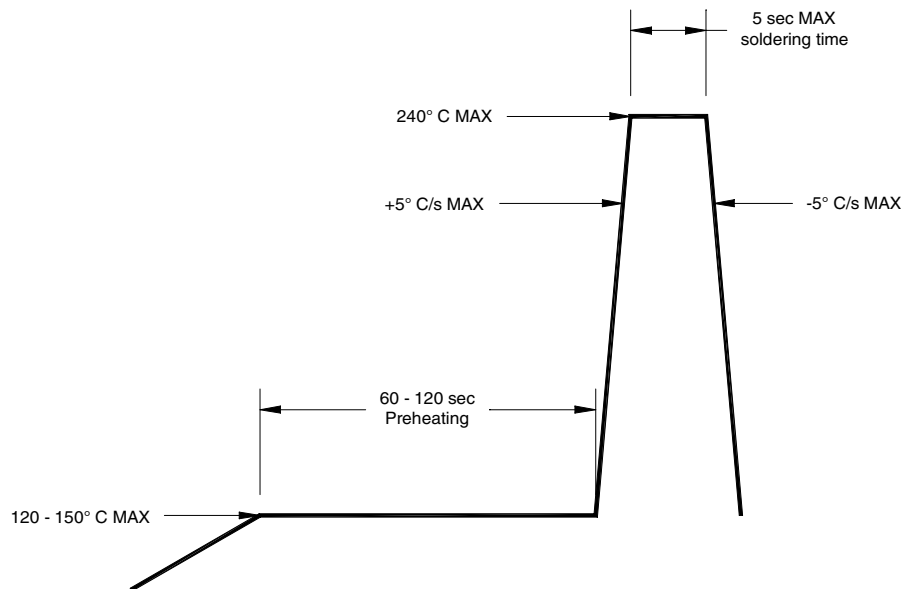
QTLP660C-IG True Green

QTLP660C-IB Blue

## RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



## RECOMMENDED IR REFLOW SOLDERING PROFILE



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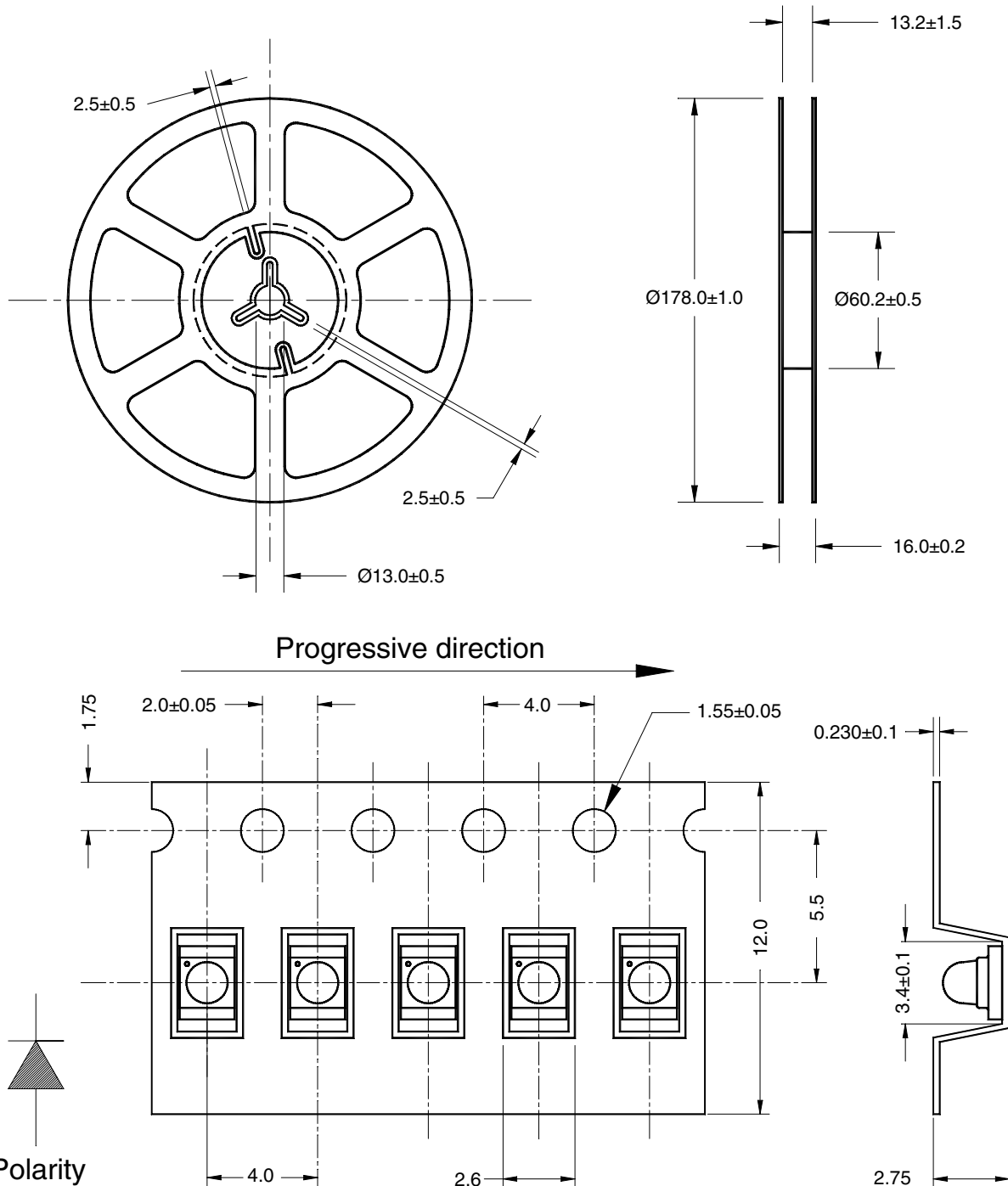
QTLP660C-Y Yellow

QTLP660C-AG Yellow-Green

QTLP660C-IG True Green

QTLP660C-IB Blue

**TAPE AND REEL DIMENSIONS**



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**QTLP660C-E** Orange

**QTLP660C-O** Yellow-Orange

**QTLP660C-Y** Yellow

**QTLP660C-AG** Yellow-Green

**QTLP660C-IG** True Green

**QTLP660C-IB** Blue

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QTLP660C-O

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These super bright surface mount chip LEDs are designed with a 1.8 mm dome lens that focuses the light output.

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Features

- Small footprint - 3.2(L) x 2.4(W) x 2.6(H) mm
- AllInGaP technoogy for -R, -E, -O, -Y and -AG
- InGaN/SiC technology for -IG and -IB
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QTLP660COTR	Full Production	\$0.10	SMD	TAPE REEL

\* 1,000 piece Budgetary Pricing

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QTLP660C-R

Red Surface Mount LED Lamp Super Bright

1.8 mm (Dome Lens)

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QTLP660CRTR	Full Production	\$0.10	SMD	TAPE REEL

\* 1,000 piece Budgetary Pricing

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General description

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\* 1,000 piece Budgetary Pricing

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\* 1,000 piece Budgetary Pricing

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QTLP660C-E

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\* 1,000 piece Budgetary Pricing

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QTLP660C-AG

Product information

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General description

These super bright surface mount chip LEDs are designed with a 1.8 mm dome lens that focuses the light output.

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Features

- Small footprint - 3.2(L) x 2.4(W) x 2.6(H) mm
- AllInGaP technoogy for -R, -E, -O, -Y and -AG
- InGaN/SiC technology for -IG and -IB
- Narrow viewing angle of 30°
- Water clear optics
- Moisture-proof packaging
- Available in 0.315-inch (8 mm) width tape on 7-inch (178 mm) diameter reel; 2,000 units per reel

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Applications

- Backlighting
- Status indication for consumer electronics and other equipment

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<b>Product</b>	<b>Product status</b>	<b>Pricing*</b>	<b>Package type</b>	<b>Packing method</b>
QTLP660CAGTR	Full Production	\$0.114	SMD	TAPE REEL

\* 1,000 piece Budgetary Pricing

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