

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

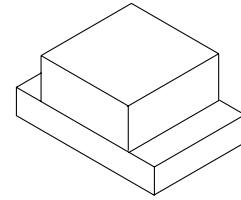
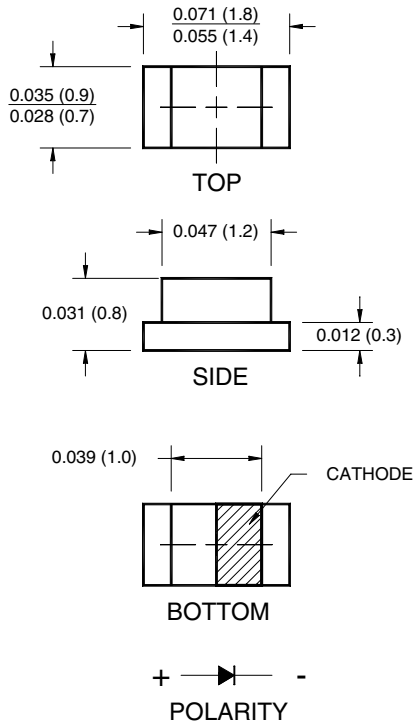
QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

PACKAGE DIMENSIONS



NOTE:

Dimensions for all drawings are in inches (mm).

APPLICATIONS

- Keypad backlighting
- Push-button backlighting
- LCD backlighting

DESCRIPTION

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

FEATURES

- Small footprint - 1.6(L) X 0.8(W) X 0.8(H) mm
- AllInGaP technology for -R, -E, -O, -Y and -AG
- InGaN/SiC technology for -IG and -IB
- Wide viewing angle of 100°
- 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 0603 (0.8 mm Height)

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

ABSOLUTE MAXIMUM RATINGS (T_A =25°C Unless otherwise specified)

Parameter	Symbol	QTLP600C					Units
		-R	-E	-O	-Y	-AG	
Continuous Forward Current	I _F	30	30	30	25	30	mA
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	160	160	160	120	160	mA
Reverse Voltage	V _R	5	5	5	5	5	V
Power Dissipation	P _D	72	72	72	60	72	mW
Operating Temperature	T _{OPR}	-40 to +85					°C
Storage Temperature	T _{STG}	-40 to +90					°C
Lead Soldering Time	T _{SOL}	260 for 5 sec					°C

ABSOLUTE MAXIMUM RATINGS (T_A =25°C Unless otherwise specified)

Parameter	Symbol	QTLP600C		Units
		-IB	-IG	
Continuous Forward Current	I _F	30	30	mA
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _{FM}	100	100	mA
Reverse Voltage	V _R	5	5	V
Power Dissipation	P _D	120	120	mW
Operating Temperature	T _{OPR}	-40 to +85		°C
Storage Temperature	T _{STG}	-40 to +90		°C
Lead Soldering Time	T _{SOL}	260 for 5 sec		°C

SURFACE MOUNT LED LAMP

SUPER BRIGHT 0603 (0.8 mm Height)

QTLP600C-R Red

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QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A =25°C)

Part Number	Symbol	QTLP600C					Condition
		-R	-E	-O	-Y	-AG	
Luminous Intensity (mcd)	I _v	15	15	15	15	10	I _F = 20mA
Minimum		35	35	35	35	15	
Typical							
Forward Voltage (V)	V _F	2.4	2.4	2.4	2.4	2.4	I _F = 20mA
Maximum		2.0	2.0	2.0	2.0	2.0	
Typical							
Wavelength (nm)	λ _P	630	620	610	590	575	I _F = 20mA
Peak		624	615	605	589	573	
Dominant	λ _D						
Spectral Line Half Width (nm)	Δλ	20	18	18	15	20	I _F = 20mA
Viewing Angle (°)	2Θ _{1/2}	100	100	100	100	100	I _F = 20mA

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A =25°C)

Part Number	Symbol	QTLP600C		Condition
		-IB	-IG	
Luminous Intensity (mcd)	I _v	15	70	I _F = 20mA
Minimum		25	110	
Typical				
Forward Voltage (V)	V _F	4.0	4.0	I _F = 20mA
Maximum		3.5	3.5	
Typical				
Wavelength (nm)	λ _P	465	520	I _F = 20mA
Peak		470	525	
Dominant	λ _D			
Spectral Line Half Width (nm)	Δλ	25	35	I _F = 20mA
Viewing Angle (°)	2Θ _{1/2}	100	100	I _F = 20mA

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

TYPICAL PERFORMANCE CURVES (QTLP600C-R, -E, -O, -Y and -AG)

Fig. 1 Forward Current vs. Forward Voltage

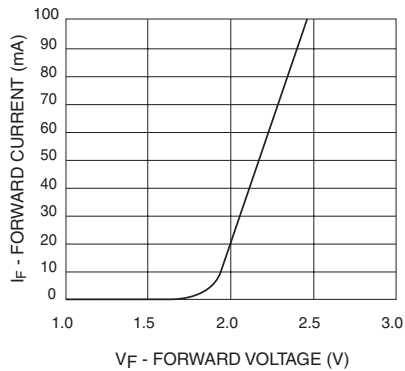


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

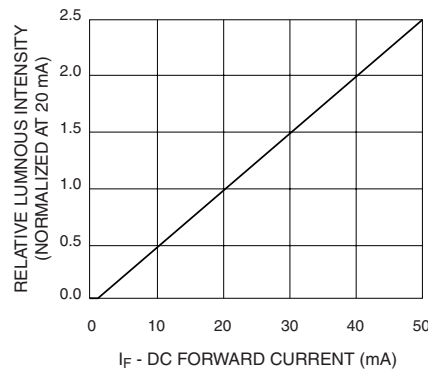


Fig. 3 Relative Intensity vs. Peak Wavelength

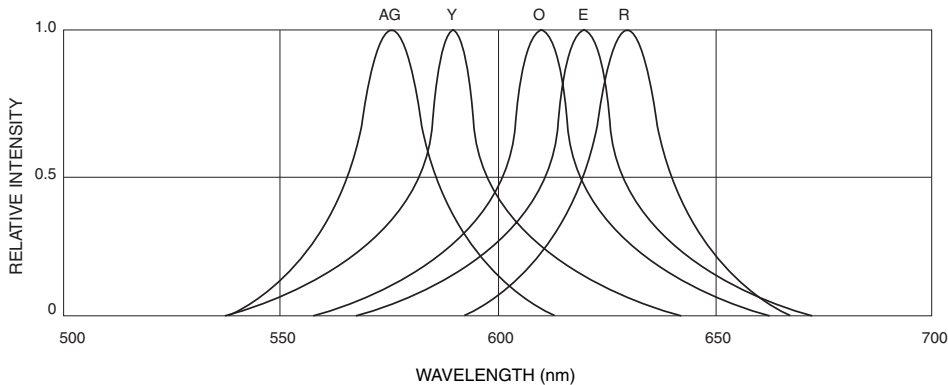


Fig.4 Radiation Diagram

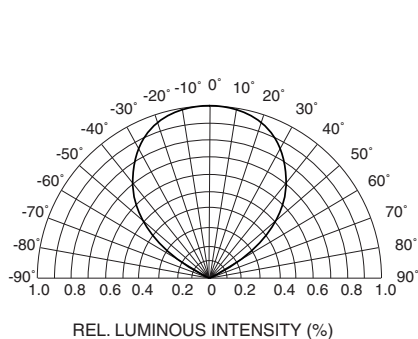
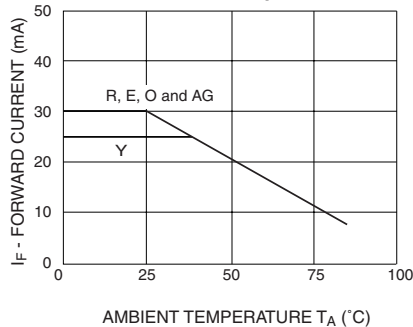


Fig.5 Maximum Forward Current vs. Ambient Temperature



QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

TYPICAL PERFORMANCE CURVES (QTLP600C-IG and IB)

Fig. 1 Forward Current vs. Forward Voltage

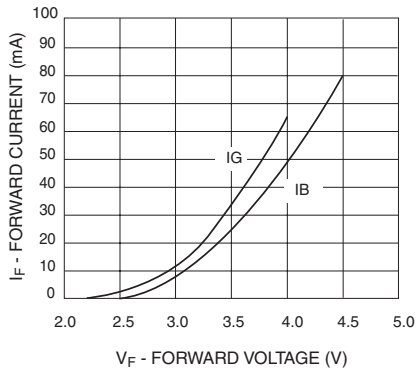


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

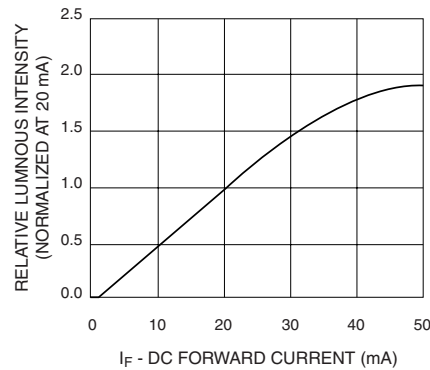


Fig. 3 Relative Intensity vs. Peak Wavelength

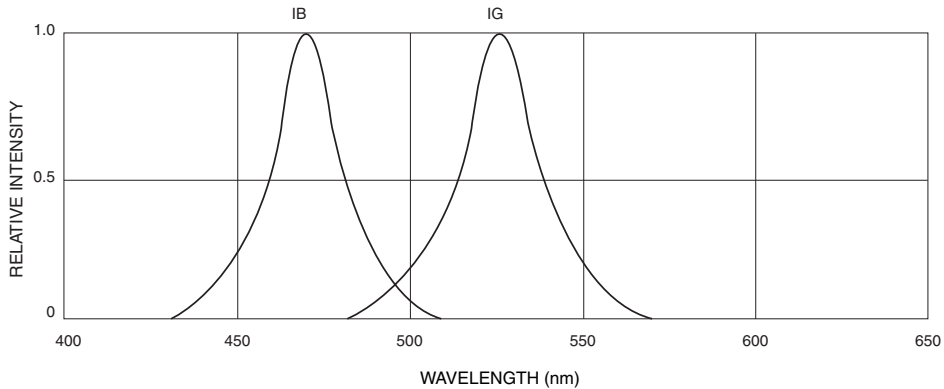


Fig. 4 Radiation Diagram

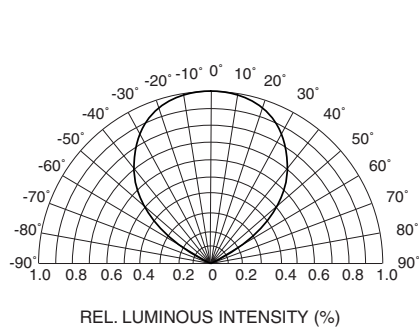
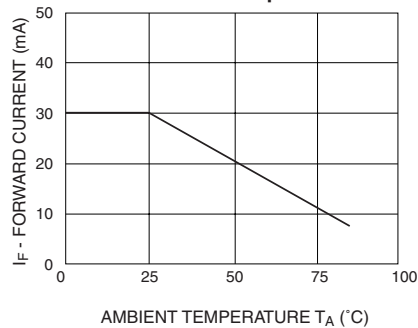


Fig. 5 Maximum Forward Current vs. Ambient Temperature



SURFACE MOUNT LED LAMP SUPER BRIGHT 0603 (0.8 mm Height)

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QTLP600C-E Orange

QTLP600C-O Yellow-Orange

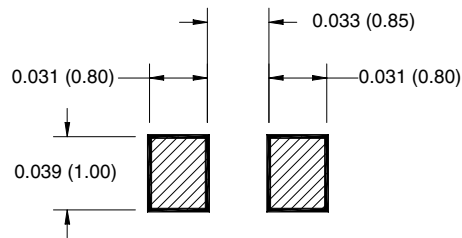
QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

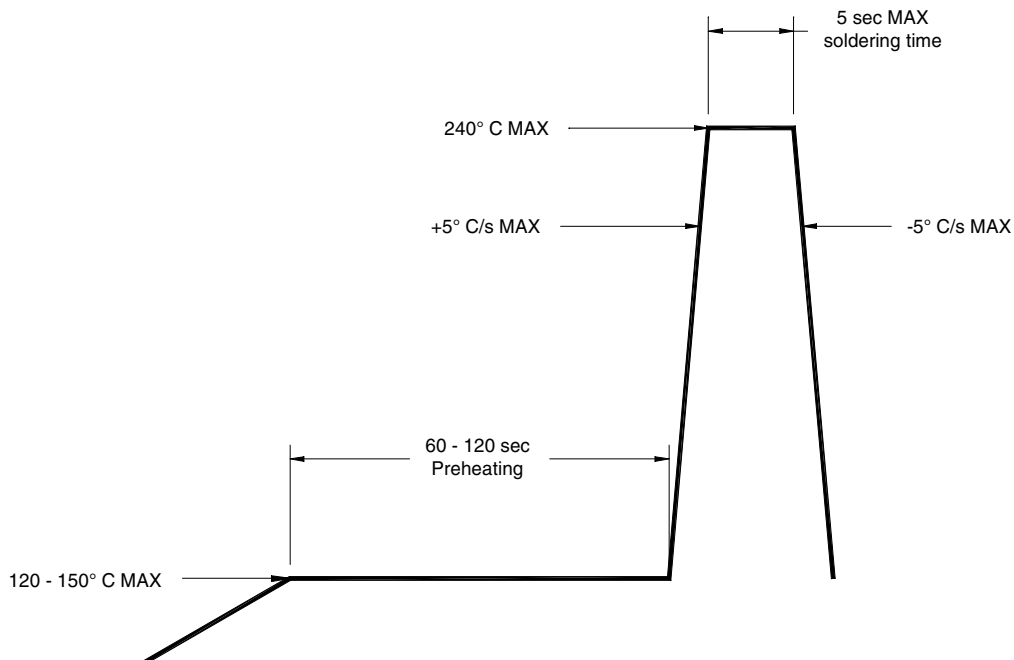
QTLP600C-IG True Green

QTLP600C-IB Blue

RECOMMENDED PRINTED CIRCUIT BOARD PATTERN



RECOMMENDED IR REFLOW SOLDERING PROFILE



QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

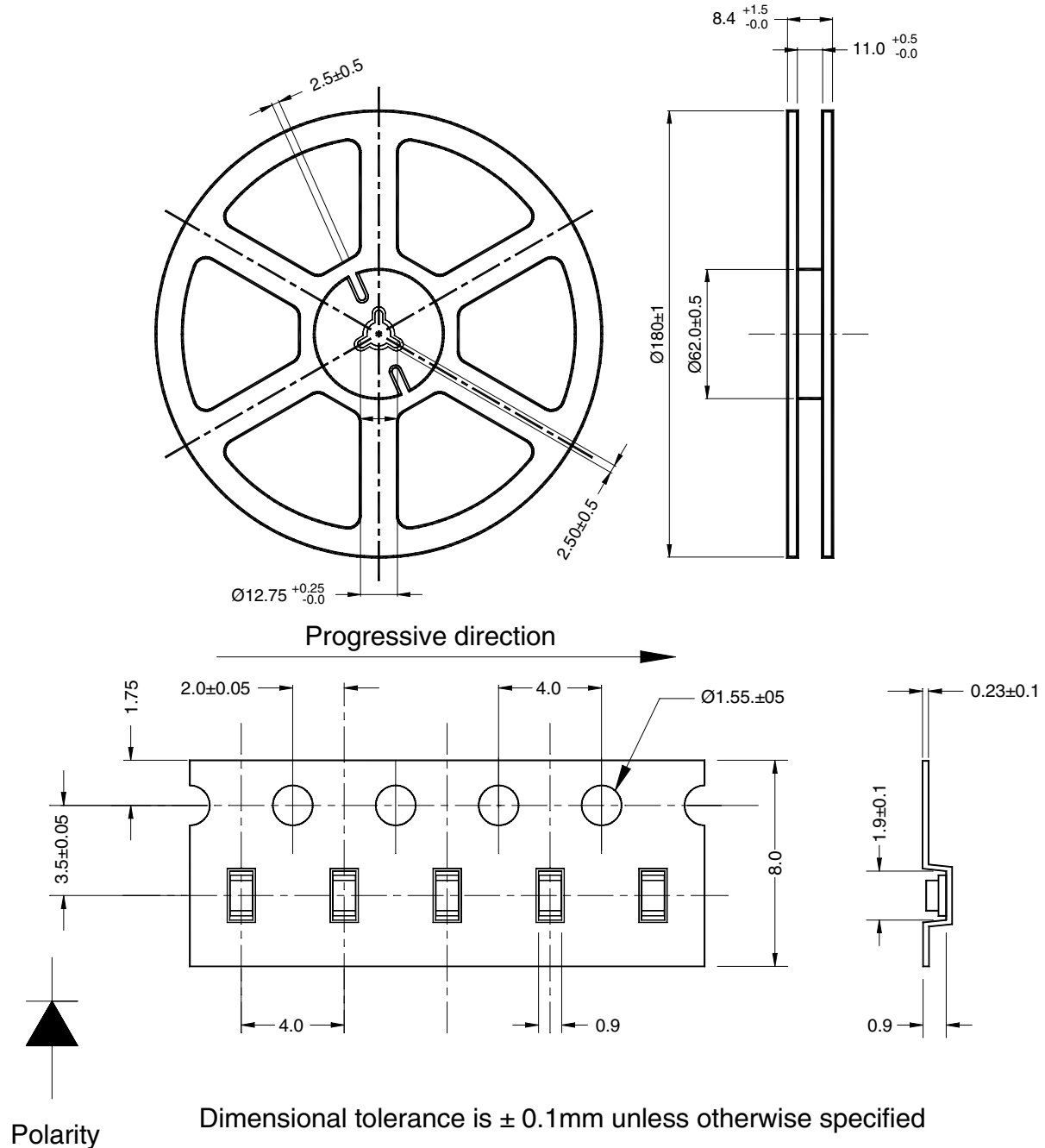
QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

TAPE AND REEL DIMENSIONS



Dimensional tolerance is ± 0.1 mm unless otherwise specified

Angle: ± 0.5

Unit: mm

QTLP600C-R Red

QTLP600C-E Orange

QTLP600C-O Yellow-Orange

QTLP600C-Y Yellow

QTLP600C-AG Yellow-Green

QTLP600C-IG True Green

QTLP600C-IB Blue

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QTLP600C-AG
Yellow-Green Surface Mount LED Lamp - Super Bright 0603 (0.8 mm Height)

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General description

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

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Features

- Small footprint - 1.6(L) x 0.8(W) x 0.8(H) mm
- AllnGaP technology for -R, -E, -O, -Y and -AG
- InGaN/SiC technology for -IG and -IB
- Wide viewing angle of 100°
- 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

- Keypad backlighting
- Push-button backlighting
- LCD backlighting

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Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
QTLP600CAGTR	Full Production	\$0.071	Purchase	SMD	BOX

* Fairchild 1,000 piece Budgetary Pricing

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QTLP600C-E
Red Surface Mount LED Lamp - Super Bright 0603 (0.8 mm Height)

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General description

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

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Features

- Small footprint - 1.6(L) x 0.8(W) x 0.8(H) mm
- AllnGaP technology for -R, -E, -O, -Y and -AG
- InGaN/SiC technology for -IG and -IB
- Wide viewing angle of 100°
- 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

- Keypad backlighting
- Push-button backlighting
- LCD backlighting

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Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
QTLP600CETR	Full Production	\$0.051	Purchase	SMD	BOX

* Fairchild 1,000 piece Budgetary Pricing

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QTLP600C-IB

Surface Mount LED Lamp - Super Bright 0606

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General description

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

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Features

- Small footprint - 1.6(L) x 0.8(W) x 0.8(H) mm
- AllnGaP technology for -R, -E, -O, -Y and -AG
- InGaN/SiC technology for -IG and -IB
- Wide viewing angle of 100°
- 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

- Keypad backlighting
- Push-button backlighting
- LCD backlighting

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QTLP600CIBTR	Full Production	\$0.67	Purchase	SMD	BOX

* Fairchild 1,000 piece Budgetary Pricing

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QTLP600C-IG

High Efficiency Red Rectangular Solid State Lamp

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General description

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

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Features

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- AllnGaP technology for -R, -E, -O, -Y and -AG
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Applications

- Keypad backlighting
- Push-button backlighting
- LCD backlighting

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Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
QTLP600CIGTR	Full Production	\$0.79	Purchase	SMD	BOX

* Fairchild 1,000 piece Budgetary Pricing

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QTLP600C-O

Yellow Surface Mount LED Lamp - Super Bright 0603 (0.8 mm Height)

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- LCD backlighting

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Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
QTLP600COTR	Full Production	\$0.051	Purchase	SMD	BOX

* Fairchild 1,000 piece Budgetary Pricing

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QTLP600C-R

High Efficiency Red Surface Mount LED Lamp - Standard Bright 0603 (0.6 mm Height)

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Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Packing method
QTLP600CRTR	Full Production	\$0.051	Purchase	SMD	BOX

* Fairchild 1,000 piece Budgetary Pricing

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QTLP600C-Y

AlGaAs Red Surface Mount LED Lamp - Standard Bright 0603 (0.6 mm Height)

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General description

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

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Features

- Small footprint - 1.6(L) x 0.8(W) x 0.8(H) mm
- AllnGaP technology for -R, -E, -O, -Y and -AG
- InGaN/SiC technology for -IG and -IB
- Wide viewing angle of 100°
- 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

- Keypad backlighting
- Push-button backlighting
- LCD backlighting

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Product status/pricing/packaging

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QTLP600CYTR	Full Production	\$0.051	Purchase	SMD	BOX

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