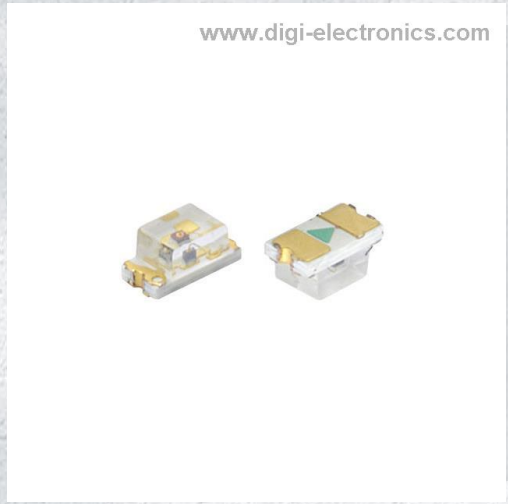
CSB63CR2O2C Datasheet



DiGi Electronics Part Number	CSB63CR2O2C-DG
Manufacturer	ChromeLED
Manufacturer Product Number	CSB63CR2O2C
Description	LED RED/ORG CLEAR 0603 CHIP SMD
Detailed Description	Orange, Red 600nm Orange, 625nm Red LED Indication - Discrete 2V 0603 (1608 Metric)

https://www.DiGi-Electronics.com

This model CSB63CR2O2C is available at DiGi Electronics.

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Datasheet Search

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
CSB63CR2O2C	ChromeLED
Series:	Product Status:
-	Active
Color:	Configuration:
Orange, Red	Standard
Lens Color:	Lens Transparency:
Colorless	Clear
Millicandela Rating:	Lens Style:
500mcd Orange, 350mcd Red	Rectangle with Flat Top
Lens Size:	Voltage - Forward (Vf) (Typ):
1.00mm x 0.80mm	2V
Current - Test:	Viewing Angle:
20mA	120°
Mounting Type:	Wavelength - Dominant:
Surface Mount	600nm Orange, 625nm Red
Wavelength - Peak:	Features:
-	-
Package / Case:	Supplier Device Package:
0603 (1608 Metric)	Chip LED
Size / Dimension:	Height (Max):
1.60mm L x 0.80mm W	0.40mm

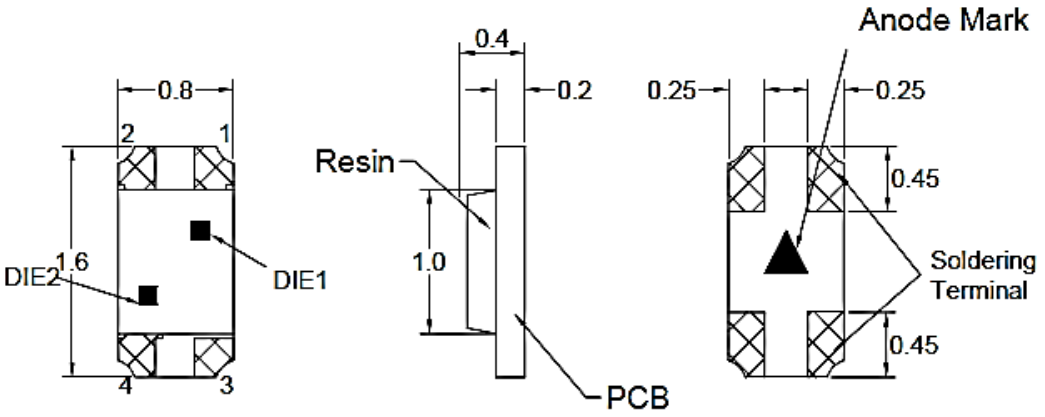
Environmental & Export classification

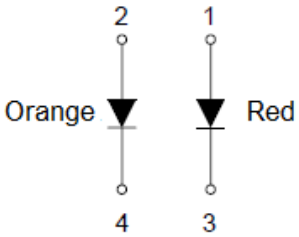
RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	2 (1 Year)
ECCN:	HTSUS:
EAR99	8541.41.0000

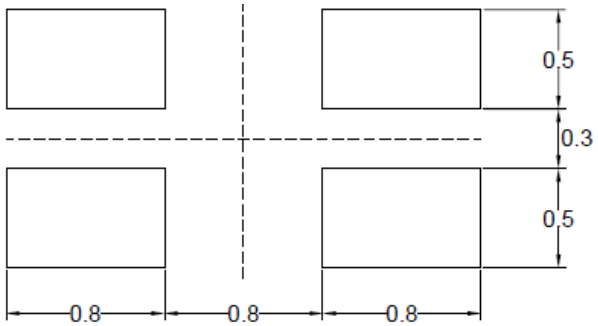
ChromeLED

SPECIFICATIONS CSB63CR2O2C

OUTLINES DIMENSIONS







Notes:
1. All Dimensions are in millimeters (inches).
2. Tolerance is ± 0.25mm (0.01”) unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSB63CR2O2C	InGaAlP	Red/Orange	Water Clear	130°

RoHS Compliant
Lead Free

ChromeLED

ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Color	Max Rating	Unit
Power Dissipation	P_D	Red	78	mW
		Orange		
Pulse Current Forward Current	I_{FP}	Red	60	mA
		Orange		
Continuous Forward Current	I_F	Red	30	mA
		Orange		
Reverse Voltage	V_R	5		V
Operating Temperature Range	T_{OPR}	-40~+85		°C
Storage Temperature Range	T_{STG}	-40~+100		°C
I_{FP} = Pulse Width ≤ 10 ms, Duty Ratio ≤1/8. Soldering Condition: 260 °C/ 5sec				

OPTICAL-ELECTRICAL CHARACTERISTICS (TA=25°C)

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	Iv	I_F = 20mA	Red	200	350	-	mcd
			Orange	320	500	-	
Forward Voltage	V_F	I_F = 20mA	Red	-	2.0	2.6	V
			Orange	-	2.0	2.6	
Reverse Leakage Current	I_R	V_R = 5V	Red	-	-	10	μA
			Orange	-	-	10	
Viewing Angle	2θ1/2	I_F = 10mA	Red	-	120	-	deg
			Orange	-	120	-	
Dominant Wavelength	λ_D	I_F = 20mA	Red	618	-	630	nm
			Orange	598	-	606	

*Tolerance of viewing angle: -10 / +5 deg.

RoHS Compliant Lead Free

OPTICAL CHARACTERISTIC CURVES (RED)

Fig.1 Forward current vs. Forward Voltage

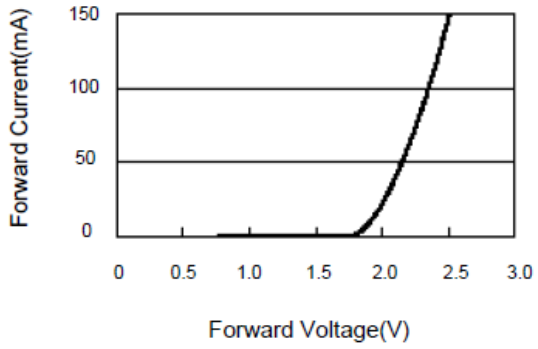


Fig.2 Luminous Intensity vs. Forward Current

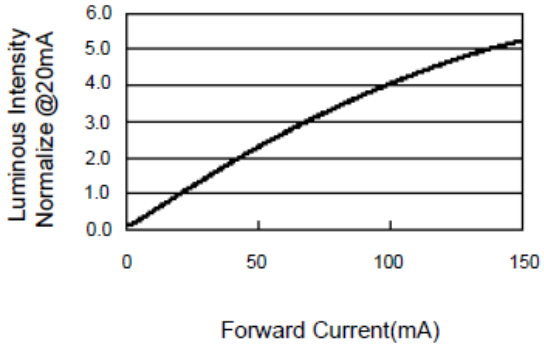


Fig.3 Forward Voltage vs. Temperature

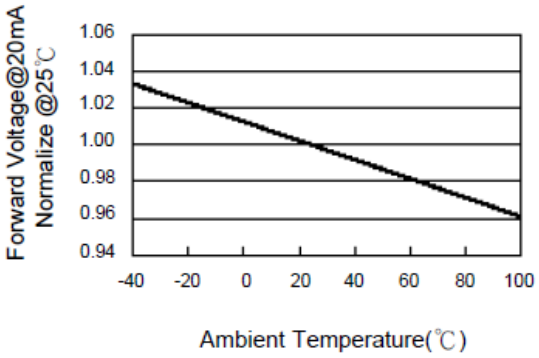


Fig.4 Luminous Intensity vs. Temperature

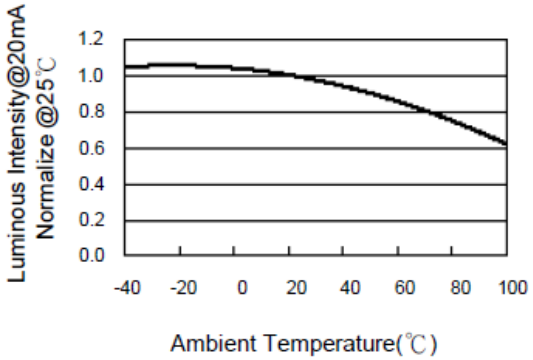


Fig.5 Relative Intensity vs. Wavelength

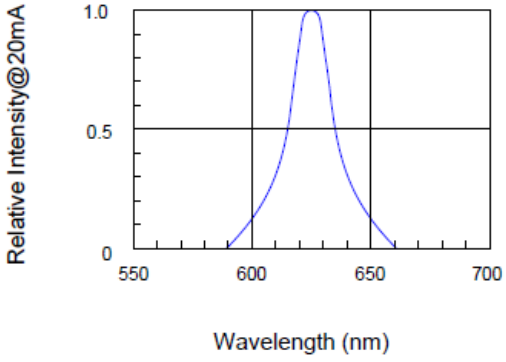
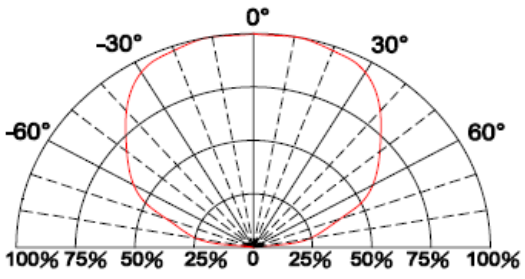


Fig.6 Directive Radiation



OPTICAL CHARACTERISTIC CURVES (ORANGE)

Fig.1 Forward current vs. Forward Voltage

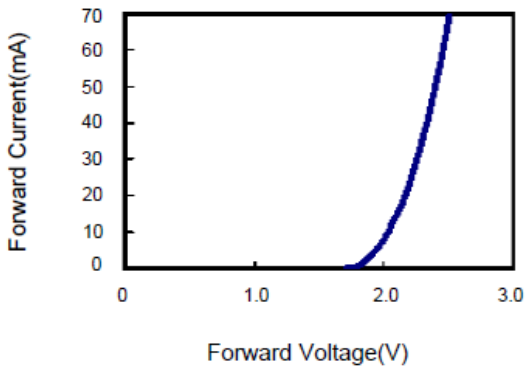


Fig.2 Relative Intensity vs. Forward Current

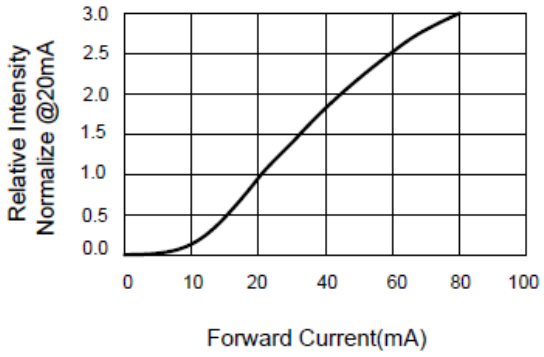


Fig.3 Forward Voltage vs. Temperature

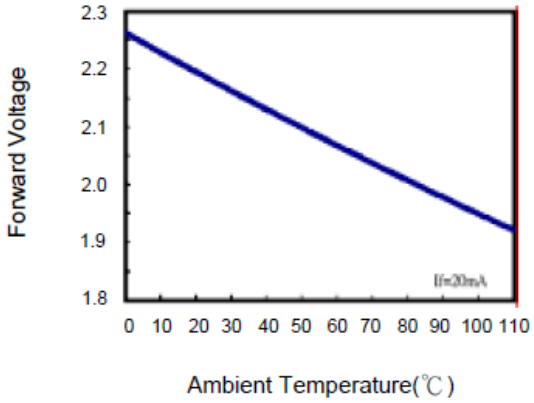


Fig.4 Relative Intensity vs. Temperature

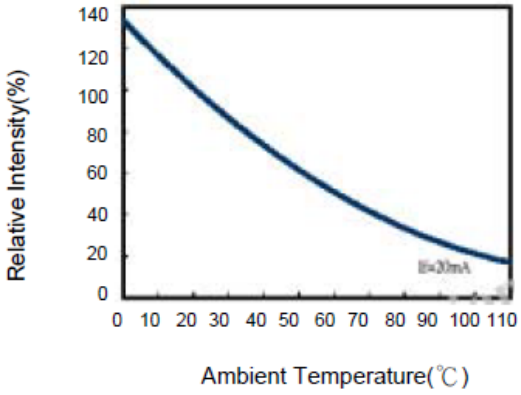


Fig.5 Relative Intensity vs. Wavelength

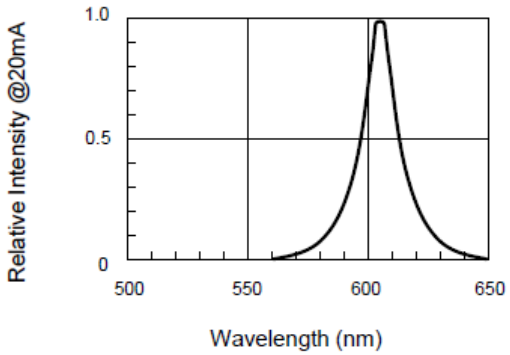
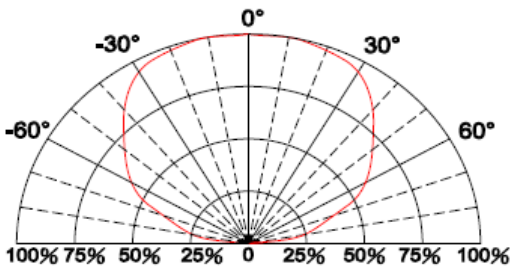


Fig.6 Directive Radiation



RoHS Compliant Lead Free

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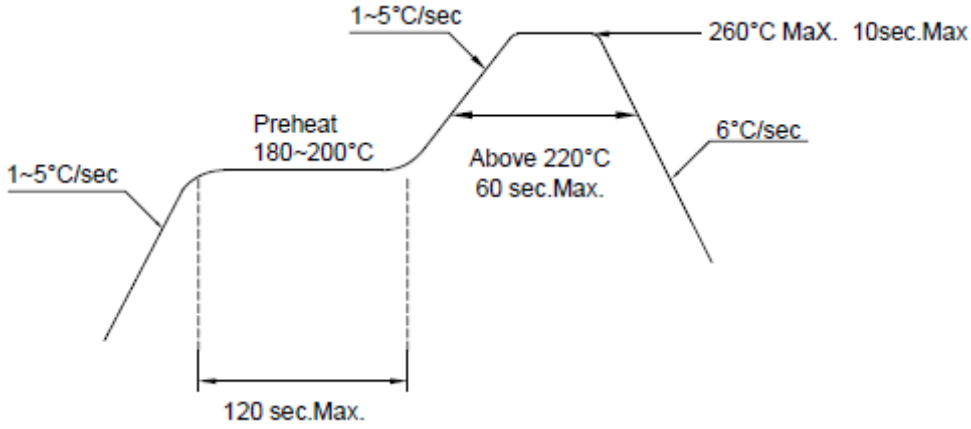
SOLDERING CONDITIONS

RECOMMENDED SOLDERING CONDITIONS

1. Hand Solder

   Basic spec is ≤ 280°C 3 sec one time only.

3. PB-Free Reflow Solder

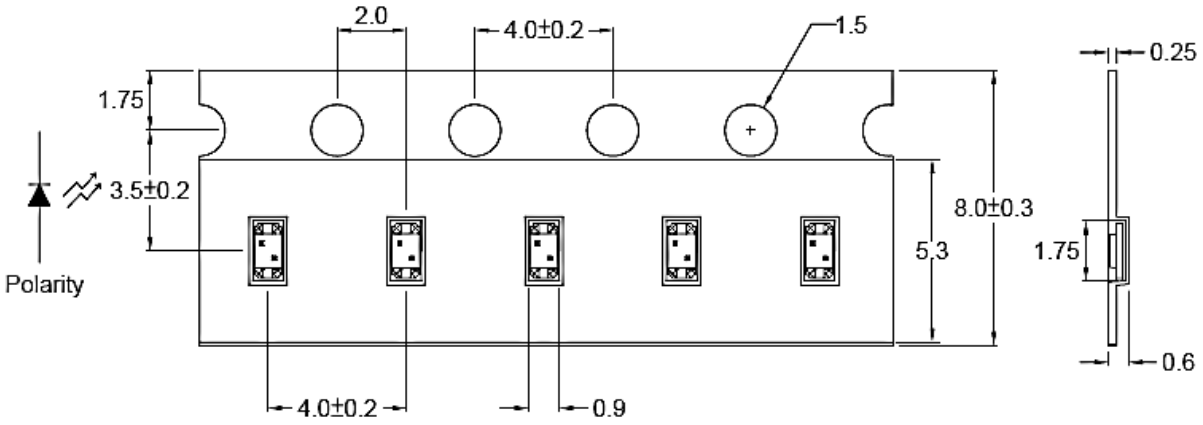


Notes:

1. Reflow soldering should not be done more than two times.
2. When soldering, do not put stress on the LEDs during heating.
3. After soldering, do not warp the circuit board.

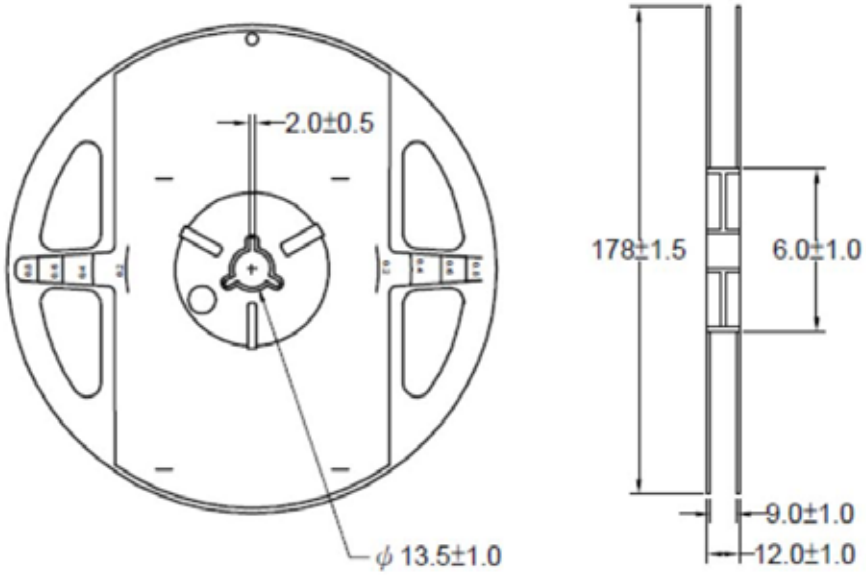
PACKAGING SPECIFICATIONS

CARRIER TAPE DIMENSION



Note: The tolerances unless mentioned are ±0.1mm, Angle ±0.5; Unit=mm

REEL DIMENSIONS



Notes:

1. 4,000 pieces per reel.
2. 8.0mm tape, 7” reel

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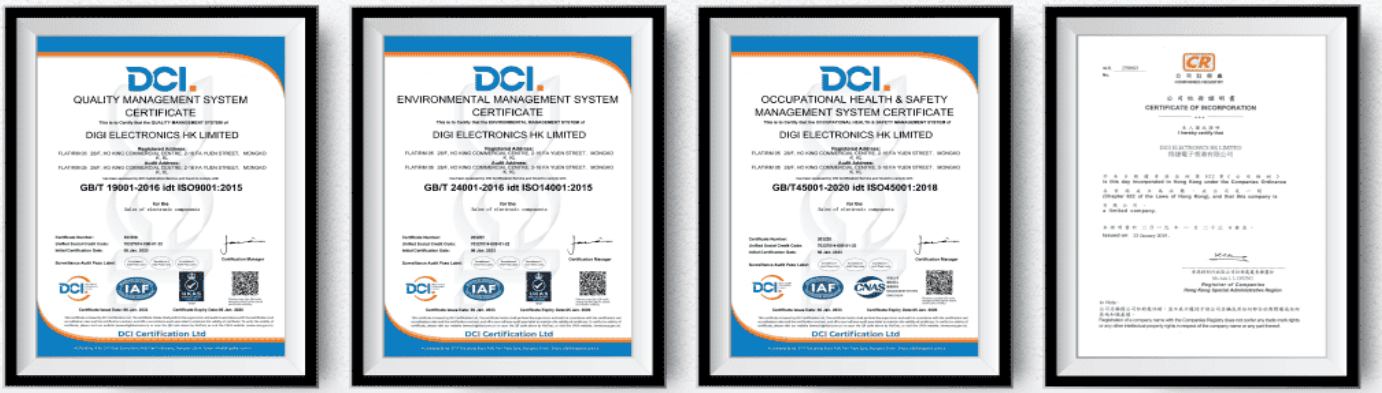

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