

QUARTZ CRYSTAL

SMD Seam Sealed Crystal - C5032 Series (5.0x3.2x0.9mm)

Features

- * High precision characteristic covering up to high frequency range
- * Designed for automatic mounting and reflow soldering
- * The best choice of Bluetooth wireless communication sets
- * Excellent heat resistance and environmental characteristics
- * RoHS Compliant / Pb Free



Specifications

Holder Type	C5032 Series
Frequency	8 Mhz ~ 100 Mhz
Operating Temperature Range	-20°C to +70°C typical or custom-designed
Storage Temperature Range	- 55 to +125°C typical
Load Capacitance	8pF ~ 30pF of Series
Frequency Tolerance at 25°C	±10ppm ~ ±30ppm, or specify
Frequency Stability	±10 ~ 30ppm, or specify
Shunt Capacitance	5.0pF Max.
Insulation Resistance	500MΩ Min. at DC 100V
Drive Level	1 ~ 100μW (10μW typical)
Aging (at 25°C)	±3ppm/ year Max.

Equivalent Series Resistance (ESR) and Mode of Operation

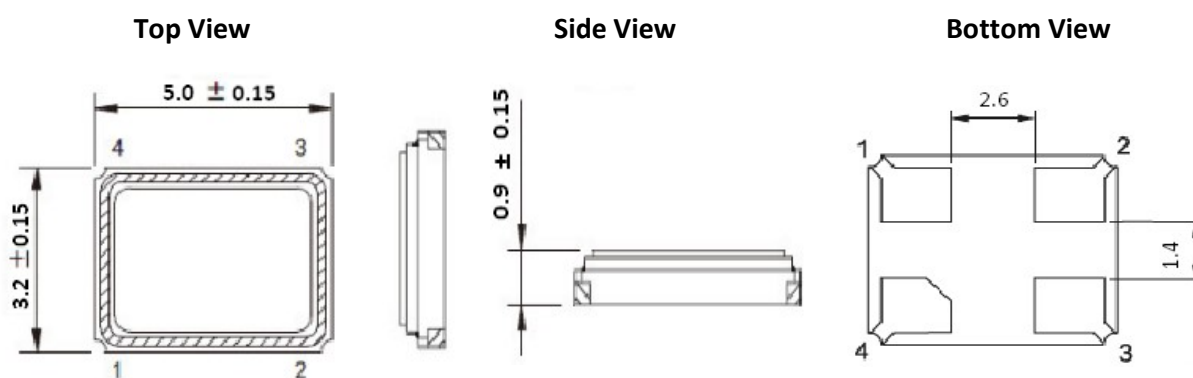
Frequency Range	ESR(Ω)	Mode
8 ~ 12 Mhz	60 Max.	AT/Fundamental
12 ~ 48 Mhz	45 Max.	AT/Fundamental
40 ~ 60 Mhz	120 Max.	AT/3RD
60 ~ 100 Mhz	80 Max.	AT/3RD

How to order

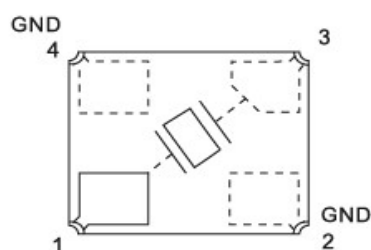
C5032	20M	2	20	D	R
Series	Frequency	Operating Temp.	Load capacitance	Frequency Tol.	Package
size: 5.0x3.2x0.9mm	20= 20Mhz 25= 25Mhz 30= 30Mhz 40= 40Mhz	1= -10°C~+60°C 2= -20°C~+70°C 3= -40°C~+85°C 4= -40°C~+105°C 5= -30°C~+85°C	10 = 10pF 15 = 15pF 20 = 20pF 30 = 30pF Or specify	B=±10ppm C=±15ppm D=±20ppm E=±30ppm F=±50ppm	R = Tape Reel

MSC

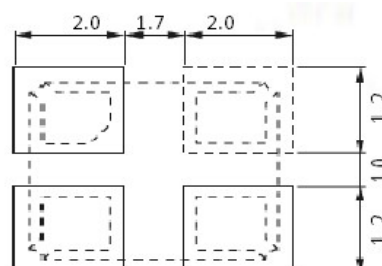
Dimensions (mm)



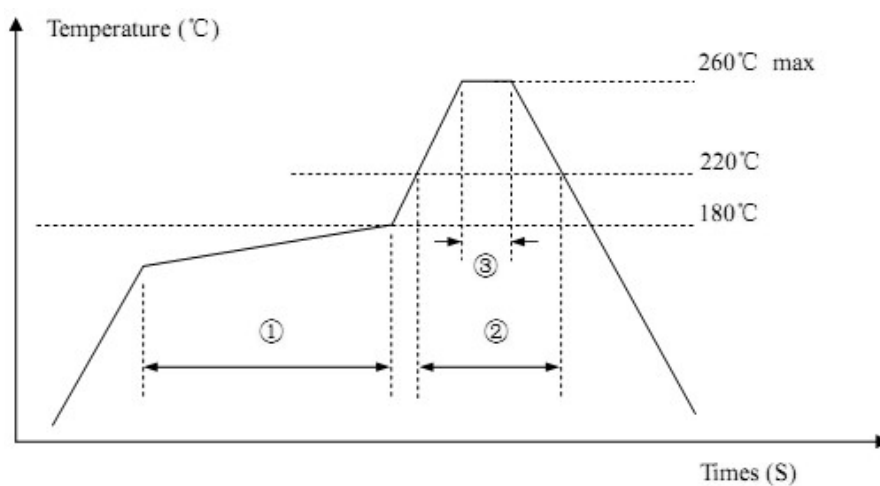
Top View Crystal Connection



Top View Suggested Layout



Reflow Condition



Pb free reflow	①	Preheat	$160\sim 180^{\circ}\text{C}$	120sec. max
	②	Primary heat	220°C	60sec. max
	③	Peak	260°C	10sec. max.

Dimension of Reel

