QUARTZ CRYSTAL

SMD Seam Sealed Crystal - C2016 / C2025 Series

Features

- * High precision characteristic covering up to high frequency range
- * Designed for automatic mounting and reflow soldering
- * RoHS Compliant / Pb Free



Specifications			
Holder Type	C2016 Series C2025 Series		
Frequency	16 Mhz ~ 96 12 Mhz ~ 54 Mhz		
Operating Temperature Range	-20°C to +70°C typical or custom-designed		
Storage Temperature Range	- 55 to +125℃ typical		
Load Capacitance	8pF ~ 32pF of Series		
Frequency Tolerance at 25°C	±10ppm ~ ±30ppm, or specify		
Frequency Stability	±10 ~ 50ppm, or specify		
Shunt Capacitance	3.0pF Max.		
Insulation Resistance	500MΩ Min. at DC 100V		
Drive Level	1 ~ 200μW (50μW typical) / 1 ~ 100μW (10μW		
Aging (at 25°C)	±3ppm/ year Max.		

Equivalent Series Resistance (ESR) and Mode of Operation

Series	Size	Thickness	Frequency Range	ESR(Ω)	Mode
C2016 2.0 x 1.6 mm		0 x 1.6 mm	16 ~ 19.2 Mhz	200 Max.	AT/Fundamental
	2.0 x 1.6 mm		19.2 ~ 30 Mhz	100 Max.	
		30 ~ 96 Mhz			80 Max.
C2025 2.0 x	2.0 x 2.5 mm	0.55 mm	12 ~ 24 Mhz	80 Max.	AT/Fundamental
	2.0 x 2.5 IIIIII		24 ~ 54 Mhz	60 Max.	Aiji unuamentai

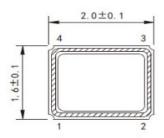
How to order					
<u>C2025</u>	20M		20	<u>D</u>	<u>R</u>
Series	Frequency	Operating Temp.	Load capacitance	Frequency Tol.	Package
C2016=2.0x1.6mm	20= 20Mhz	1= -10°C ~+60°C	10 = 10pF	B=±10ppm	R = Tape Reel
C2025=2.0x2.5mm	25= 25Mhz	2= -20°C ~+70°C	15 = 15pF	C=±15ppm	
	30= 30Mhz	3= -40°C ~+85°C	20 = 20pF	D=±20ppm	
	40= 40Mhz	4= -40°C ~+105°C	30 = 30pF	E=±30ppm	
		5= -30°C ~+85°C	Or specify	F=±50ppm	



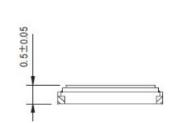
Dimensions (mm)

※ C2016 Seires

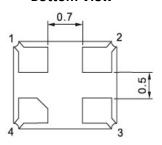
Top View



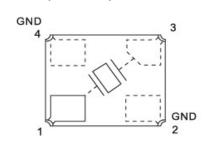
Side View



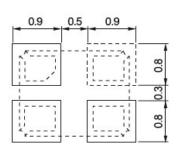
Bottom View



Top View Crystal Connection

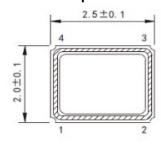


Top View Suggested Layout

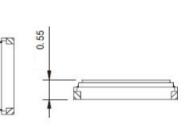


※ C2025 Seires

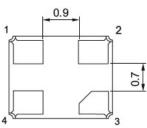
Top View



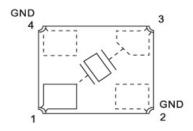
Side View



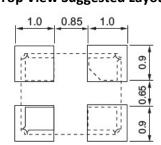
Bottom View



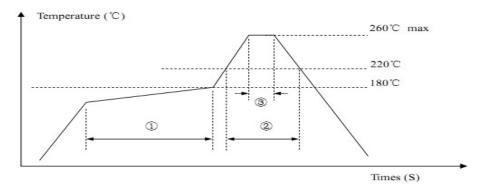
Top View Crystal Connection



Top View Suggested Layout



Reflow Condition



Pb free reflow	1	Preheat	160~180℃	120sec. max
	2	Primary heat	220℃	60sec. max
	(3)	Peak	260℃	10sec. max.

Dimension of Reel

