

Research for Frequency Products

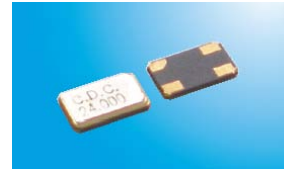
Description

This low profile 4 pad SMD ceramic package has been special designed for mobile telecom and miniature electronic applications. All frequencies are vibrated in fundamental mode. 3000 parts are in 8mm embossed tape in reel as standard.

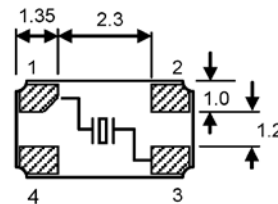
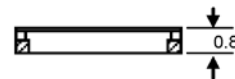
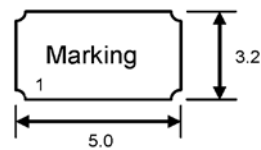
Features

- Tight Tolerance $\pm 10\text{ppm}$ available
- Ultra small size as 5.0x3.2mm
- Thin package height as 0.8mm
- SMD in high population PCB assembly
- RoHS Compliant**

Ceramic (SEAM seal) Crystal
 5.0x3.2x0.8mm SMD (4 pad)
 10.000MHz ~ 54.000MHz



Outlines and Dimensions

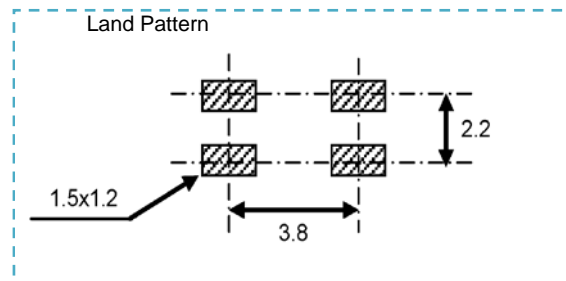


Bottom View

Pin	Connect
1	Xtal
2	GND
3	Xtal
4	GND

Standard Parameters

Parameter	Specifications
Frequency Range	10.000MHz ~ 54.000MHz
Vibration Mode	Fundamental
Frequency Tolerance @25°C	$\pm 30\text{ppm}$ ($\pm 10\text{ppm}$ option)
Frequency Stability vs Temp Range	$\pm 30\text{ppm}$ ($\pm 10\text{ppm}$ option)
Load Capacitance	8 ~ ∞ (Series)
Equivalent Series Resistance	
10 ~ 12 MHz	120 Ω Max.
12 ~ 20 MHz	80 Ω Max
20 ~ 28 MHz	60 Ω Max
28 ~ 54 MHz	50 Ω Max
Drive Level	10 μW
Operating Temp. Range	-10 ~ +60 °C
Storage Temp. Range	-40 ~ 125 °C



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