

Research for Frequency Products

Description

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

Features

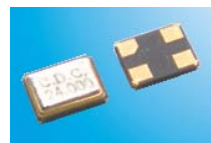
Tight Tolerance $\pm 10\text{ppm}$ available
Ultra small size as 2.5x2.0mm
Thin package height as 0.6mm
SMD in high population PCB assembly
RoHS Complaint

Standard Parameters

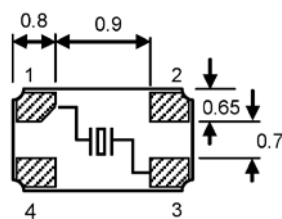
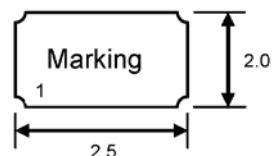
Parameter	Specifications
Frequency Range	12.000MHz ~ 54.000MHz
Vibration Mode	Fundamental
Frequency Tolerance @25°C	$\pm 30\text{ppm}$ ($\pm 10\text{ppm}$ option)
Frequency Stability vs Temp Range	$\pm 30\text{ppm}$ ($\pm 10\text{ppm}$ option)
Load Capacitance (pF)	8 ~ 32pF or Series
Equivalent Series Resistance	
12 ~ 20 MHz	150Ω Max.
20 ~ 30 MHz	80 Ω Max
30 ~ 54 MHz	60 Ω Max
Drive Level	10μW
Operating Temp. Range	-20 ~ +70 °C or specify
Storage Temp. Range	-40 ~ 125 °C

Ceramic (SEAM seal) Crystal

2.5x2.0mm SMD (4 pad)
12.000MHz ~ 54.000MHz



Outlines and Dimensions

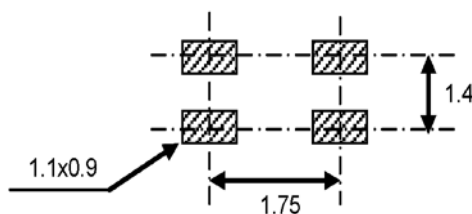


Bottom View

Pin	Connect
1	Xtal
2	GND
3	Xtal
4	GND



Land Pattern



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Subject to change without notice