

Research for Frequency Products

Description

This low profile 4 pad SMD ceramic package has been special designed for mobile telecom, smart card 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 2.0x1.6mm
Thin package height as 0.5mm
SMD in high population PCB assembly
RoHS Complaint

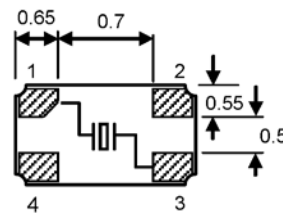
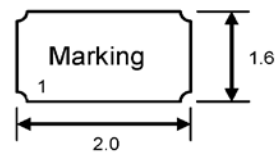
Ceramic (SEAM seal) Crystal
2.0x1.6mm SMD (4 pad)
16.000MHz ~ 60.000MHz



Standard Parameters

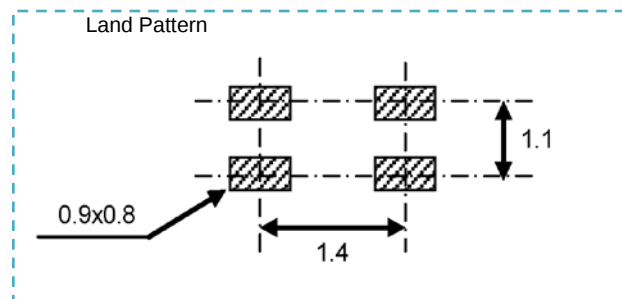
Parameter	Specifications
Frequency Range	12.000MHz ~ 60.000MHz
Vibration Mode	Fundamental
Frequency Tolerance @25°C	$\pm 30\text{ppm}$ ($\pm 10\text{ppm}$ option)
Frequency Stability vs Temp Range	$\pm 30\text{ppm}$ ($\pm 10\text{ppm}$ option)
Load Capacitance (pF)	8 ~ 32pF or Series
Equivalent Series Resistance	
16 ~ 20 MHz	200Ω Max.
20 ~ 30 MHz	100Ω Max
30 ~ 60 MHz	80Ω Max
Drive Level	10μW
Operating Temp. Range	-20 ~ +70 °C or specify
Storage Temp. Range	-40 ~ 125 °C

Outlines and Dimensions



Bottom View

Pin	Connect
1	Xtal
2	GND
3	Xtal
4	GND



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Subject to change without notice