

Research for Frequency Products

Description

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

Features

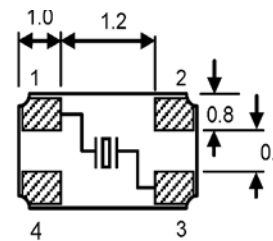
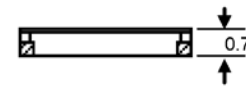
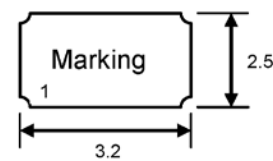
Tight Tolerance $\pm 10\text{ppm}$ available
Ultra small size as $3.2 \times 2.5\text{mm}$
Thin package height as 0.7mm
SMD in high population PCB assembly
RoHS Complaint

Ceramic (SEAM seal) Crystal

$3.2 \times 2.5 \times 0.7\text{mm}$ SMD (4 pad)
 $10.000\text{MHz} \sim 54.000\text{MHz}$



Outlines and Dimensions

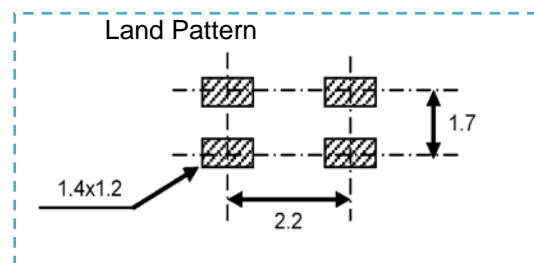


Bottom View

Pin	Connect
1	Xtal
2	GND
3	Xtal
4	GND

Standard Parameters

Parameter	Specifications
Frequency Range	$10.000\text{MHz} \sim 54.000\text{MHz}$
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	$8 \sim \infty$ (Series)
Equivalent Series Resistance	
$10 \sim \leq 12\text{ MHz}$	120Ω Max.
$12 \sim \leq 20\text{ MHz}$	80Ω Max
$20 \sim \leq 28\text{ MHz}$	60Ω Max
$28 \sim \leq 54\text{ MHz}$	50Ω Max
Drive Level	$10\mu\text{W}$
Operating Temp. Range	$-10 \sim +60^\circ\text{C}$
Storage Temp. Range	$-40 \sim 125^\circ\text{C}$



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