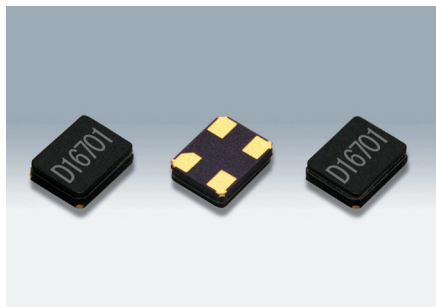


SMD Crystal Resonators / MHz Band Crystal Resonators

DSX321G



Actual size

■ Features

- 3225 size miniature and lightweight SMD crystal resonator.
Height DSX321G (over 12MHz): 0.75mm
DSX321G (12MHz or under): 0.85mm
- Excellent heat resistance, High precision and high reliability (Frequency aging specification of $\pm 1 \times 10^{-6}/1$ year or $\pm 3 \times 10^{-6}/5$ years is available for cell phone or wireless communication systems etc.)
- Offers a wide range of frequencies from 7.9MHz up to 64MHz.
- AEC-Q200 Compliant
- Fully lead free option available.
- Frequency Characteristics over Temperature $\pm 50 \times 10^{-6}/-40$ to $+105^\circ\text{C}$ is available for Industrial Equipment.



■ Applications

- Telecommunication products, short-range wireless modules and other small devices such as DVC, DSC, PC.
- Automotive applications such as Bluetooth, wireless LAN, GPS/GNSS, RKE (Remote Keyless Entry), safety controls and multimedia devices (AEC-Q200 Compliant)
- Industrial equipment

■ Standard Specification

Item	Type	DSX321G						
		7.9 to 9MHz	9 to 9.8MHz	9.8 to 11MHz	11 to 12MHz	12 to 20MHz	20 to 27MHz	27 to 64MHz
Frequency Range		7.9 to 9MHz	9 to 9.8MHz	9.8 to 11MHz	11 to 12MHz	12 to 20MHz	20 to 27MHz	27 to 64MHz
Overtone Order		Fundamental						
Load Capacitance		8pF, 10pF, 12pF						
Drive Level		10μW (200μW max.)						
Frequency Tolerance		$\pm 20 \times 10^{-6}$ (at 25°C)						
Series Resistance		400Ω max.	300Ω max.	150Ω max.	100Ω max.	80Ω max.	60Ω max.	50Ω max.
Frequency Characteristics over Temperature		$\pm 30 \times 10^{-6} / -30$ to $+85^\circ\text{C}$ (Ref. to 25°C)						
Storage Temperature Range		-40 to $+85^\circ\text{C}$						
Packing Unit (1)		3000pcs./reel (φ180)						

(1) Moisture prevention packing is unnecessary.
Moisture Sensitivity Level: LEVEL1 (IPC/JEDEC J-STD-033)

Consult our sales representative for other specifications.

■ DSX321G (12MHz or under)

[mm] ■ DSX321G (over 12MHz)

[mm]

■ DSX321G (12MHz or under)		■ DSX321G (over 12MHz)	
■ Dimensions 3.2±0.1 (width), 2.5±0.1 (height), 0.85±0.15 (thickness). Logo, Frequency, Lot No.	■ Internal Connections (Top View) #1 & #3 connected to quartz element #2 & #4 GND connected or N.C. available	■ Dimensions 3.2±0.1 (width), 2.5±0.1 (height), 0.75±0.15 (thickness). Logo, Frequency, Lot No.	■ Internal Connections (Top View) #1 & #3 connected to quartz element #2 & #4 GND connected or N.C. available
■ Recommended Land Pattern (Top View) Dimensions: 2.1, 1.6, 0.9, 1.7, 1.2, 0.7	■ Recommended Land Pattern (Top View) Dimensions: 2.2, 1.7, 1.2, 0.7	■ Recommended Land Pattern (Top View) Dimensions: 2.1, 1.6, 0.9, 1.7, 1.2, 0.7	■ Recommended Land Pattern (Top View) Dimensions: 2.2, 1.7, 1.2, 0.7