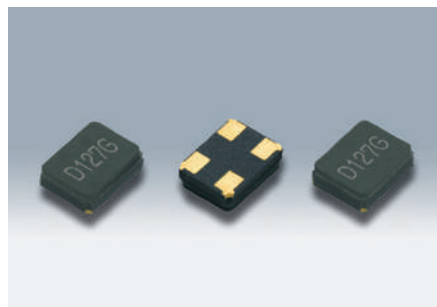


SMD Crystal Resonators / MHz Band Crystal Resonators

DSX221G (For Industrial Equipment)



Actual size

Features

- 2520 size miniature and lightweight SMD crystal resonator with a low profile of 0.75mm.
- 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 12MHz up to 64MHz. Moisture prevention packing is unnecessary.
- Moisture Sensitivity Level: LEVEL 1 (IPC/JEDEC J-STD-033)
- AEC-Q200 Compliant

Applications

- Industrial equipment
- Telecommunication products and other small devices such as DVC, DSC, PDA, PC, USB.
- Automotive applications such as RKE(Remote Keyless Entry), safety controls and multimedia devices(AEC-Q200 Compliant)



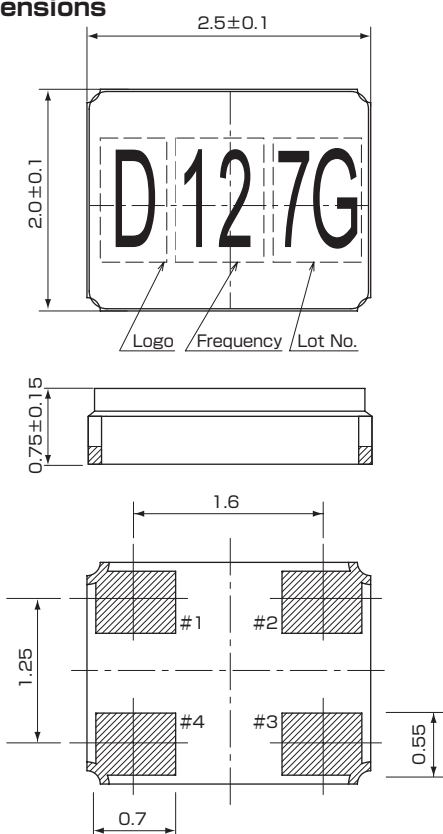
Standard Specification

Item	Type	DSX221G				
Frequency Range		12 ~ 13MHz	13 ~ 16MHz	16 ~ 20MHz	20 ~ 27MHz	27 ~ 64MHz
Overtone Order		Fundamental				
Load Capacitance		8pF, 10pF, 12pF				
Drive Level		10 μ W (200 μ W max.)				
Frequency Tolerance		$\pm 20 \times 10^{-6}$ (at 25 $^{\circ}$ C)				
Series Resistance		250 Ω max.	150 Ω max.	100 Ω max.	80 Ω max.	60 Ω max.
Frequency Characteristics over Temperature		$\pm 50 \times 10^{-6}$ / -40 ~ +105 $^{\circ}$ C (Ref. to 25 $^{\circ}$ C)				
Storage Temperature Range		-40 ~ +105 $^{\circ}$ C				
Packing Unit		3000pcs./reel (ϕ 180)				

Consult our sales representative for other specifications.

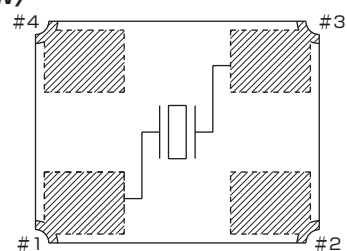
[mm]

Dimensions



Internal Connections

<Top View>



#1 & #3 connected to quartz element
#2 & #4 open (unconnected)

Recommended Land Pattern

<Top View>

