SMD Crystal Resonators / MHz Band Crystal Resonators

DSX221S



Actual size

■ Features

- 2520 size miniature and lightweight SMD crystal resonator with a low profile of 0.5mm.
- ◆ High precision and high reliability (Frequency aging specification of ±1×10⁻⁶/1 year or ±3×10⁻⁶/5 year are available for cell phone or wireless communications systems etc.)
- Offers a wide frequency range from a comparatively low 12MHz up to 60MHz.

RoHS Compliant

Applications

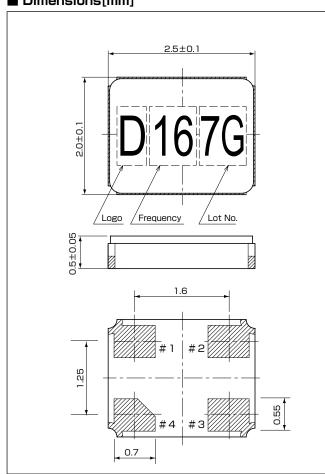
 Telecommunications products like short-range wireless modules and other small devices such as DVC, DSC, PDA, PC.

■ Standard Specification

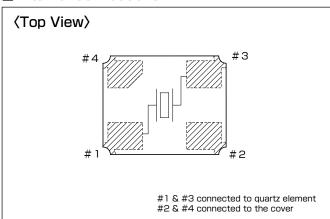
Item Type	DSX221S				
Frequency Range	$12 \sim 13 MHz$	13∼16MHz	16 ~ 20MHz	20 ~ 30MHz	30 ~ 60MHz
Overtone Order	Fundamental				
Load Capacitance	Series, 8pF, 10pF, 12pF				
Drive Level	10μW (200μW max.)				
Frequency Tolerance	$\pm 10 \times 10^{-6}$, $\pm 20 \times 10^{-6}$, $\pm 30 \times 10^{-6}$, $\pm 50 \times 10^{-6}$ (at 25°C)				
Series Resistance	200Ω max.	100Ω max.	80Ω max.	60Ω max.	40Ω max.
Frequency Characteristics over Temperature	$\pm 8 \times 10^{-6}$, $\pm 20 \times 10^{-6}$, $\pm 30 \times 10^{-6}$, $\pm 50 \times 10^{-6}$ / $-10 \sim +60 ^{\circ}$ (Ref. to 25 °C)				
	$\pm 12 \times 10^{-6}$, $\pm 20 \times 10^{-6}$, $\pm 30 \times 10^{-6}$, $\pm 50 \times 10^{-6}$ / $-20 \sim +70 ^{\circ} C$ (Ref. to $25 ^{\circ} C$)				
	$\pm 15 \times 10^{-6}$, $\pm 20 \times 10^{-6}$, $\pm 30 \times 10^{-6}$, $\pm 50 \times 10^{-6}$ / $-30 \sim +85 \%$ (Ref. to 25%)				
Storage Temperature Range	-40 ~ +85℃				
Packing Unit	3000pcs./reel (φ180)				

Consult our sales representative for other specifications.

■ Dimensions[mm]



■ Internal Connections



■ Recommended Land Pattern [mm]

