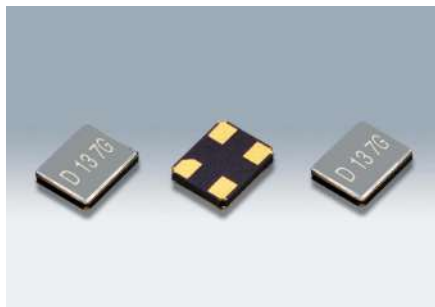


# SMD Crystal Resonators / MHz Band Crystal Resonators

## DSX321SL



Actual size

### ■ Features

- 3225 size miniature and lightweight SMD crystal resonator with a low profile of 0.5mm.
- High precision and high reliability
- Offers a wide frequency range from a comparatively low 13MHz up to 55MHz.

### ■ Applications

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

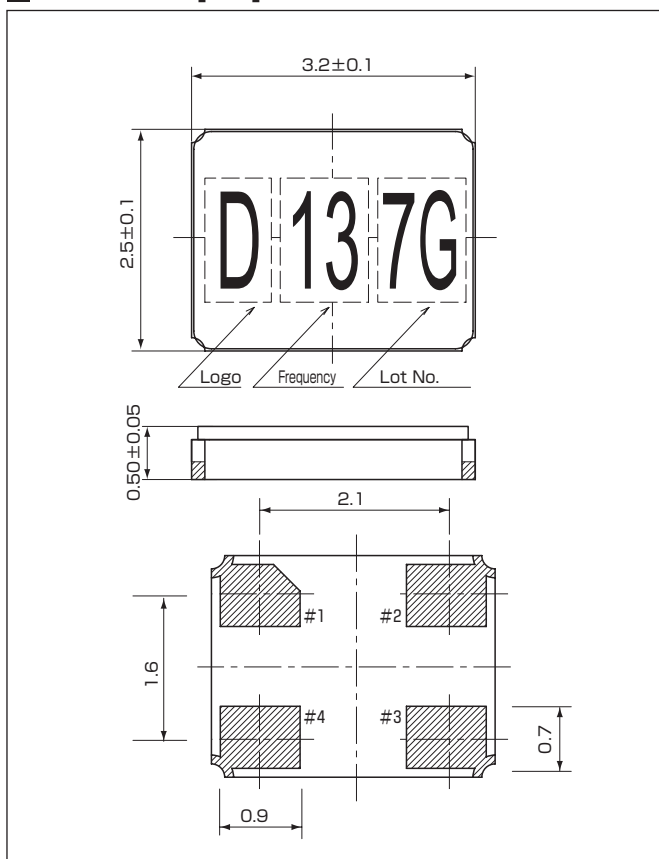


### ■ Standard Specification

Item	Type	DSX321SL		
Frequency Range		13~20MHz	20~26MHz	26~55MHz
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		50Ω max.	40Ω max.	30Ω max.
Frequency Characteristics over Temperature		$\pm 8 \times 10^{-6}$ / -10~+60°C (Ref. to 25°C)		
		$\pm 12 \times 10^{-6}$ / -20~+70°C (Ref. to 25°C)		
		$\pm 15 \times 10^{-6}$ / -30~+85°C (Ref. to 25°C)		
Storage Temperature Range		-40~+85°C		
Packing Unit		3000pcs./reel (φ 180)		
Standard Specification		Refer to page 36		

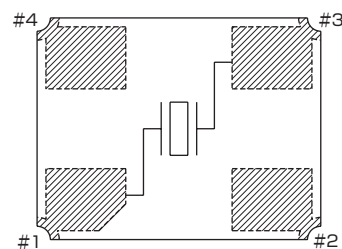
Consult our sales representative for other specifications.

### ■ Dimensions[mm]



### ■ Internal Connections

#### <Top View>



#1 & #3 connected to quartz element  
#2 & #4 connected to the cover

### ■ Recommended Land Pattern

[mm]

#### <Top View>

