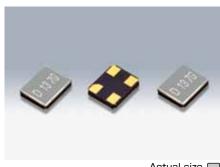
SMD Crystal Resonators / MHz Band Crystal Resonators

DSX321SL



Actual size

■ Features

- 3225 size miniature and lightweight SMD crystal resonator with a low profile of 0.5mm.
- High precision and high reliability (Frequency aging specification of $\pm 1 \times 10^{-6}/1$ year or $\pm 3 \times 10^{-6}/5$ year are available for cell phone or wireless communications systems etc.)
- Offers a wide frequency range from a comparatively low 13MHz up to 60MHz.





Applications

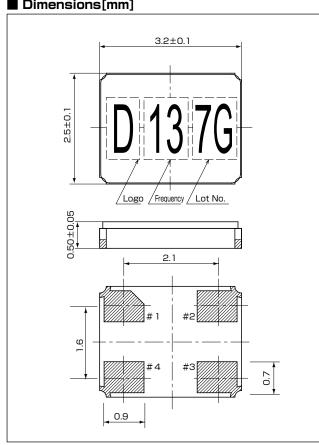
 Telecommunications products like short-range wireless modules and other small devices such as DVC, DSC, PDA, PC.

■ Standard Specification

Item Type	DSX321SL		
Frequency Range	13 ~ 20MHz	20 ~ 26MHz	26 ~ 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	50Ω max.	40Ω max.	30Ω max.
Frequency Characteristics over Temperature	$\pm 8 \times 10^{-6}$, $\pm 20 \times 10^{-6}$, $\pm 30 \times 10^{-6}$, $\pm 50 \times 10^{-6}$ / $-10 \sim +60 ^{\circ}$ C (Ref. to 25 °C)		
	$\pm 12 \times 10^{-6}$, $\pm 20 \times 10^{-6}$, $\pm 30 \times 10^{-6}$, $\pm 50 \times 10^{-6}$ / $-20 \sim +70 ^{\circ} \text{C}$ (Ref. to $25 ^{\circ} \text{C}$)		
	$\pm 15 \times 10^{-6}$, $\pm 20 \times 10^{-6}$, $\pm 30 \times 10^{-6}$, $\pm 50 \times 10^{-6}$ / $-30 \sim +85 ^{\circ} C$ (Ref. to $25 ^{\circ} C$)		
Storage Temperature Range	-40 ~+85°C		
Packing Unit	3000pcs./reel (φ180)		
Standard Specification	Refer to page 33		

Consult our sales representative for other specifications.

■ Dimensions[mm]



■ Internal Connections

