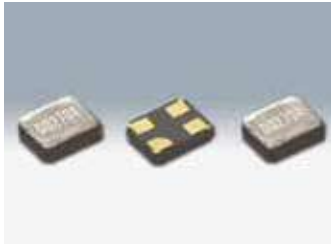


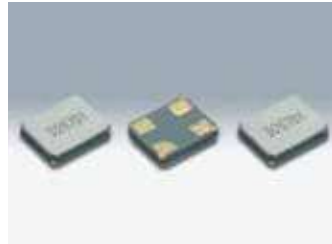
# SMD Crystal Resonators/MHz Band Crystal Resonators

## DSX1612S/DSX211AL



DSX1612S

Actual size □



DSX211AL

Actual size □

### ■ Features

- 1612 size ultra miniature and lightweight SMD crystal resonator with a low profile of 0.35mm (DSX1612S).
- 2016 size miniature and lightweight SMD crystal resonator with a low profile of 0.35mm (DSX211AL)
- 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.)
- Allowing for high density surface mounting.



### ■ Applications

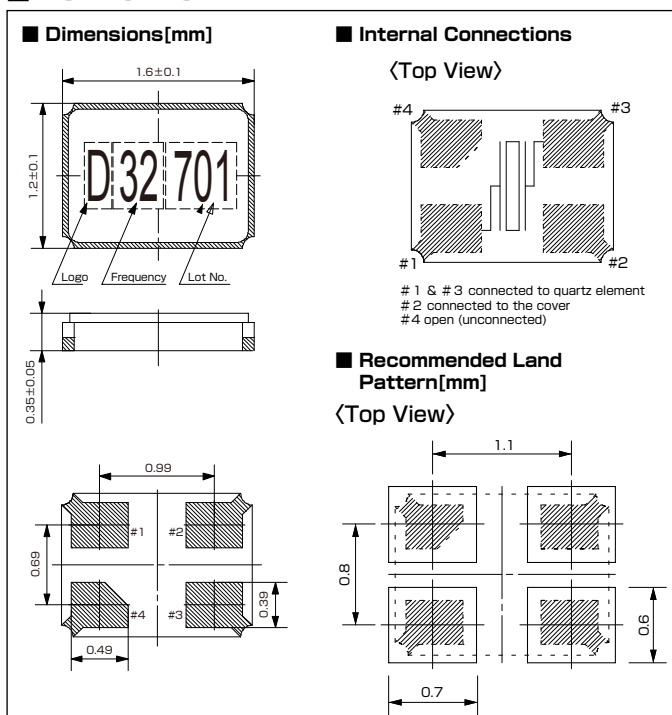
- Small mobile devices for next generation like mobile communications, short-range wireless modules, digital AV equipment and PC.
- Wearable devices (DSX1612S)

### ■ Standard Specification

Item	Type	DSX1612S			DSX211AL	
		24 ~ 32MHz	32 ~ 40MHz	40 ~ 54MHz	24 ~ 36MHz	36 ~ 50MHz
Overtone Order		Fundamental				
Load Capacitance		Series, 8pF, 10pF, 12pF				
Drive Level		10 $\mu$ W (100 $\mu$ W 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		200 $\Omega$ max.	150 $\Omega$ max.	100 $\Omega$ max.	60 $\Omega$ 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 ~ +60°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 ~ +70°C (Ref. To 25°C)				
		$\pm 15 \times 10^{-6}$ , $\pm 20 \times 10^{-6}$ , $\pm 30 \times 10^{-6}$ , $\pm 50 \times 10^{-6}$ / -30 ~ +85°C (Ref. To 25°C)				
Storage Temperature Range		-40 ~ +85°C				
Packing Unit		3000pcs./reel ( $\phi$ 180)				

Consult our sales representative for other specifications.

### ■ DSX1612S



### ■ DSX211AL

