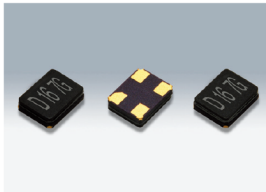
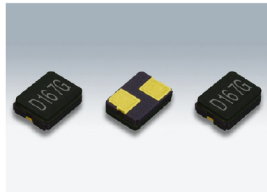


# SMD Crystal Resonators / MHz Band Crystal Resonators (For Automotive)

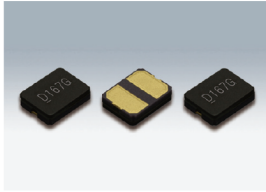
## DSX321G/DSX320G/DSX320GE



DSX321G



DSX320G



DSX320GE

Actual size

### ■ Features

- Miniature and lightweight SMD crystal resonator height DSX321G (over 12MHz): 0.75mm  
DSX321G (under 12MHz): 0.85mm  
DSX320G (over 12MHz): 0.85mm  
DSX320G (under 12MHz): 0.95mm  
DSX320GE: 0.95mm
- Excellent heat resistance, High precision and high reliability
- Offers a wide range of frequencies from 7.9MHz to 64MHz
- Enhanced durability of solder joint for thermal cycles : after 3000 thermal cycle tests  $-40, +125^{\circ}\text{C}$  (DSX320G/DSX320GE)
- Moisture prevention packing is unnecessary. Moisture Sensitivity Level: LEVEL1 (IPC/JEDEC J-STD-033)
- AEC-Q200 Compliant
- Fully lead free option available.



### ■ Applications

- Multimedia devices such as car navigation systems and car audio, safety controls, TPMS, keyless entry (DSX321G)
- ECU (engine, body work control), safety relations, car body controls, ABS, EPS (DSX320G/DSX320GE)

### ■ Standard Specification

Item	Type	DSX321G/DSX320G/DSX320GE				
Frequency Range		7.9~9.8MHz	9.8~11MHz	11~12MHz	12~27MHz	27~64MHz
Overtone Order		Fundamental				
Load Capacitance		8pF, 10pF, 12pF				
Drive Level		10μW (200μW max.)				
Frequency Tolerance		$\pm 30 \times 10^{-6}$ (at 25°C)				
Series Resistance		400Ω max.	200Ω max.	150Ω max.	120Ω max.	100Ω max.
Frequency Characteristics over Temperature		$\pm 100 \times 10^{-6} / -40 \sim +125^{\circ}\text{C}$ (Ref. to 25°C)				
Storage Temperature Range		$-40 \sim +150^{\circ}\text{C}$				
Reliability		AEC-Q200				
Packing Unit		3000pcs./reel (φ180)				

Consult our sales representative for other specifications.

### ■ DSX321G

### ■ DSX320G

### ■ DSX320GE

### ■ [mm]

