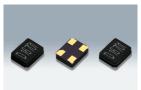
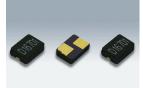


RoHS/ELV Compliant

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

DSX321G/DSX321GK/DSX320G/DSX320GE

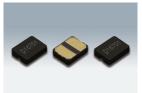




Actual size

[mm] **DSX320G**





DSX320GE

Features

 Miniature and lightweight SMD crystal resonator height DSX321G (over 12MHz): 0.75mm



DSX320GE: 0.95mm

Excellent heat resistance, High precision and high reliability

 Offers a wide range of frequencies DSX321G/DSX320G/DSX320GE: 7.9 to 64MHz DSX321GK: 9.8 to 40MHz

- Enhanced durability of solder joint for thermal cycles : after 3000 thermal cycle tests "-40, +125°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. (DSX321G)



- Multimedia devices such as car navigation systems and car audio,safety controls,TPMS,keyless entry(DSX321G/DSX321GK)
- ECU (engine, body work control), safety relations, car body controls, ABS,EPS(DSX320G/DSX320GE)

Standard Specification

■ DSX321G/DSX321GK

■ Dimensions

0.9 Under12MHz 2.1

0.9

Type	DSX321G/DSX320G/DSX320GE					
Item		DSX321GK				
Frequency Range	7.9 to 9.8MHz	9.8 to 11MHz	11 to 12MHz	12 to 27MHz	27 to 40MHz	40 to 64MHz
Overtone Order	Fundamental					
Load Capacitance	8pF, 10pF, 12pF					
Drive Level	10μW(200μW max.)					
Frequency Tolerance	±30×10 ⁻⁶ (at 25°C)					
Series Resistance	400Ω max.	200Ω max.	150Ω max.	120Ω max.	100Ω max.	
Frequency Characteristics over Temperature	$\pm 100 \times 10^{-6} / -40 \text{ to } + 125^{\circ}\text{C}(\text{Ref. to } 25^{\circ}\text{C})$					
Storage Temperature Range	-40 to +150°C					
Reliability	AEC-Q200					
Packing Unit	3000pcs./reel(φ180)					

Consult our sales representative for other specifications.

■ DSX320GE

(Top View) 16 70 HDH #1 #1 Logo Frequency Lot No. connected to quartz element #2 & #4 open (unconnected) DSX321G 0.75±0.15 : Over 12MHz 0.85±0.15 : Under 12MHz DSX321GK 0.85±0.15 Over12MHz Recommended and Pattern (Top View) 2.2

■ Internal Connections

