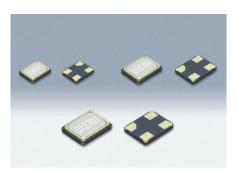




SMD Crystal Resonators / MHz Band Crystal Resonators (For Automotive)

DSX211SH/DSX221SH/DSX321SH



Actual size DSX211SH DSX221SH DSX321SH

Features

Miniature and lightweight SMD crystal resonator

DSX211SH: 2016 size 0.45mm height DSX221SH: 2520 size 0.45mm height DSX321SH: 3225 size 0.65mm height

Excellent heat resistance, High precision and high reliability

 Offers a wide range of frequencies DSX211SH: 16MHz to 60MHz DSX221SH: 12MHz to 54MHz DSX321SH: 12MHz to 50MHz

◆ AEC-Q200 Compliant



 Automotive radio applications such as Bluetooth, wireless LAN and GPS/GNSS and multimedia devices, etc.



RoHS/ELV Compliant

■ Standard Specification

Item Type	DSX211SH		DSX221SH			DSX321SH		
Frequency Range	16 to 30MHz	30 to 60MHz	12 to 24MHz	24 to 30MHz	30 to 54MHz	12 to 20MHz	20 to 32MHz	32 to 50MHz
Overtone Order	Fundamental							
Load Capacitance	8pF, 10pF, 12pF							
Drive Level	10μW (100μW max.)		10μW (200μW max.)					
Frequency Tolerance	±30×10 ⁻⁶ (at 25℃)							
Series Resistance	100Ω max.	50Ω max.	120Ω max.	50Ω max.	40Ω max.	80Ω max.	50Ω max.	40Ω max.
Frequency Characteristics over Temperature	±100×10 ⁻⁶ / −40 to +125°C (Ref. to 25°C)							
Storage Temperature Range	−40 to +150°C							
Reliability	AEC-Q200							
Packing Unit (1)	3000pcs./reel(φ180)							

⁽¹⁾ Moisture prevention packing is unnecessary.
Moisture Sensitivity Level:LEVEL1 (IPC/JEDEC J-STD-033)

Consult our sales representative for other specifications.

