

# Crystal Resonators <For Automotive>

## AT-49/SMD-49/DSX151 GAL



AT-49

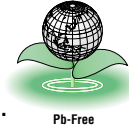


SMD-49



DSX151 GAL

Miniature PTH and SMD crystals for automotive electronics.



### ■ Features

- Capable of operating over a wide temperature range.
- Offers a high degree of reliability due to excellent shock and vibration resistance, as well as excellent frequency stability.
- SMD version is suitable for automatic mounting and reflow soldering.
- AEC-Q200 Compliant
- Pb-Free(AT-49/SMD-49)
- RoHS/ELV Compliant

### ■ Standard Specification

Item	Type	AT-49	SMD-49	DSX151 GAL
Frequency Range		3.072~33.9MHz		3.5~33MHz
Overtone Order		Fundamental		
Load Capacitance		Series, 8pF, 10pF, 12pF		
Drive Level		10μW(300μW max.)		
Frequency Tolerance		±50×10 <sup>-6</sup> , ±100×10 <sup>-6</sup> (at 25°C)		
Series Resistance		40~300Ω max.		
Frequency Characteristics over Temperature		±150×10 <sup>-6</sup> / -40~+125°C, ±200×10 <sup>-6</sup> / -40~+125°C		
Storage Temperature Range		-40~+150°C		
Reliability		AEC-Q200		
Packing Unit		1000pcs.	1000pcs./reel(φ330)	

Consult our sales representative for other specifications.

### ■ Dimensions[mm]

