



# SMD Quartz Crystal

## 49SS6

### Features

- All metal welded package
- RoHS Compliant Standard

### Mechanical Specifications

Outline	
Top View	
Front View	
Bottom View	
All dimensions are in mm. Tolerance is $\pm 0.1$ mm, unless otherwise specified.	

Frequency Range	8 MHz ~ 27 MHz
Mode of Oscillation	Fundamental
Frequency Tolerance at 25°C	Select from Table 3
Operating Temperature Range (OTR)	Select from Table 1
Temperature Stability	Select from Table 1
Equivalent Series Resistance	Specified in Table 2
Drive level	100 $\mu$ Watts (typ.)
Shunt Capacitance, C0	7.0 pF (max.)
Resonance Condition	XXS – Series, XXP – Parallel with xx pF (for parallel, please specify the xx value in pF)
Storage Temperature Range	-50°C to +105°C
Aging @ 25°C	$\pm 5$ ppm (max.) per Year

**Table 1**

Codes	Stability Codes	Temperature stability	E	F	G	H	M
			$\pm 15$ ppm	$\pm 20$ ppm	$\pm 25$ ppm	$\pm 30$ ppm	$\pm 50$ ppm
D	Operating Temperature Range (OTR)	-10°C to +60°C					
C		-20°C to +70°C					
G		-30°C to +80°C					
I		-40°C to +85°C					

Denotes Available  Denotes not Available

**Table 2**

Max. Equivalent Series Resistance	
Frequency Range (MHz)	ESR
8.0 ~ 9.9	60 $\Omega$
10.0 ~ 11.9	50 $\Omega$
12.0 ~ 27.0	40 $\Omega$

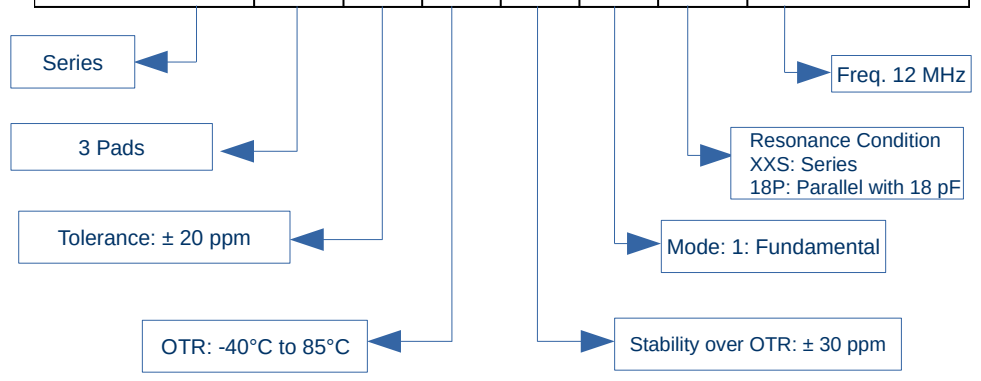
**Table 3**

Frequency Tolerance at 25°C	
Code	Stability
F	$\pm 20$ ppm
G	$\pm 25$ ppm
H	$\pm 30$ ppm
M	$\pm 50$ ppm

### Ordering Information

#### Example

49SS	6	F	I	H	1	18P	012M000000
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Specifications subject to change without notice

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Note: Not all combination of options are available. Other specifications may be available upon request.

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Page 1 of 1

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