



49S 系列



**Type**  
**10.8 x 4.5 mm Crystal**

**FEATURE**

- Typical 10.8 x 4.5 x 3.4 mm standard footprint.
- Low profile for close PCB stacking.

**TYPICAL APPLICATION**

- Automotive
- Bluetooth, Wireless
- Computers, Modems, Communications
- Set-top Box, DECT/WDCT

Frequency range	3.00~100.00MHZ
Load Capacitance	Series, 6~32pf, or specify
Frequency Tolerance(at25 °C )	± 10 PPM± 20 PPM± 30 PPM or specify
Frequency stability Over Operating Temperature Range	± 10 PPM± 20 PPM± 30 PPM or specify
Operating Temperature Range	-20~+70°C -40~+85°C or specify
Storage Temperature Range	-40~+85°C
Shunt Capacitance(C0)	7pf-Max
Drive Level	1~1000uW (100uW typical)
Insulation Resistance	500m Minimum at 100VDC
Aging(at25°C)	± 3PPM/year Max.

**DIMENSION (mm)**

**SOLDER PAD LAYOUT (mm)**



**ELECTRICAL SPECIFICATION**

Parameter	Min.	Typical	Max.	Unit
Storage Temp. Range	-55	-	125	°C
Level of Drive	-	10	800	µw
Shunt Capacitance (Co)	-	-	7.0	pF
Insulation Resistance	500 MΩ @ DC100V	-	-	
Aging		±5		ppm / year

**FREQ. STABILITY vs. TEMP. RANGE**

Temp. (°C)	ppm	±5	±10	±15	±20
-10 ~ +60		×	○	○	○
-20 ~ +70		×	△	○	○
-40 ~ +85		×	×	×	○



# Model Numbering Guide – Crystal Units

## Available options

①	②	③	④		⑤						
Type	package (mm)	Frequency range	Load Capacitance (pF)	Freq. Tol. @25°C (ppm)	Freq. Stability (ppm)	Temp. Range(°C)	Special Requirement	Oscillator Mode	Appearance	Lead Free	Dash
1612	1.6x1.2	3.00~100.00MHZ	6	±5	±5	A:-20~+70 E:-40~+85 J:-40~+105	For Automotive Spurious DLD No Special Pullability Several	AT Fundamental AT 3 <sup>rd</sup> Overtone	Normal	RoHs Compliant	-
2016	2.0x1.6		7	±10	±10						
2520	2.5x2.0		8	±15	±15						
3225	3.2x2.5		9	±20	±20						
5032	5.0x3.2 (4Pads)		10	±25	±25						
6035	6.0x3.5		12	±30	±30						
3225	3.2x2.5		15	±40	±40						
5032	5.0x3.2 (2Pads)		16	±50	±50						
8045	8.0x4.5		18	±100	±100						
49S	11.1x4.68		20	±150	±150						
49MD	13.0x4.85		22		±150 above						
			25								
		30									
		32									

产品编号:  -  -  -  -

① ② ③ ④ ⑤  
 ①型号 ②频率 ③负载电容 ④频率稳定度(X10<sup>-6</sup>, +25°C) ⑤温度

范例: 49MD-12.00-20-20-20/A  
 ① ② ③ ④ ⑤

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