



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 rd 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(X10⁻⁶, +25°C) ⑤温度

范例: 49MD-12.00-20-20-20/A
 ① ② ③ ④ ⑤

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