

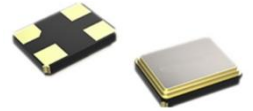
MHZ SMD CRYSTALS

MAIN FEATURE

- Ultra-small SMD Package, Seam Sealed Ceramic-Metal, 4pads
- High precision & High frequency stability

RFQ
Request For Quotation

NEW



L1.6*W1.2*H0.40mm

APPLICATION

- Small Bluetooth & wireless device • IoT, Health care equipment

STANDARD SPECIFICATION

| Parameter | Value | | | Unit | Condition |
|------------------------------------|----------|------|-------|-----------|-------------------------------|
| | Min. | Type | Max. | | |
| Frequency Range | 24.00 | | 96.00 | MHz | |
| Oscillation Mode | AT Fund. | | | | |
| Frequency Tolerance | - | ±50 | | ppm@25 °C | See p/n guide for more option |
| Operating Temp. Range | -40 | - | +85 | °C | See p/n guide for more option |
| Storage Temp. Range | -55 | - | +125 | °C | |
| Load Capacitance(CL) | - | 18 | - | pF | See p/n guide for more option |
| Frequency Stability | - | ±50 | - | ppm | See p/n guide for more option |
| Equivalent Series Resistance (ESR) | | | 150 | ohm | @24.000 ~ 32.0MHz |
| | | | 100 | | @32.001~38.00MHz |
| | | | 80 | | @38.001~96.00MHz |
| Drive Level | - | - | 100 | μW | |
| Shunt Capacitance | - | - | 7.0 | pF | |
| Insulation Resistance | 500 | - | | mW | DC/100V +-10% |
| Aging per year | - | ±3 | | ppm | @25 °C |

PART NUMBER GUIDE

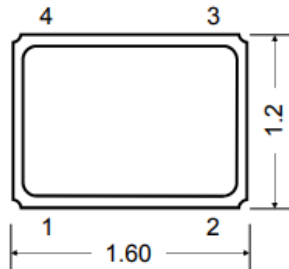
Example: CM11 48M0A50-18-50-40-80 TLF

| | | | | | | | | | | |
|------|------|---|----|-----|-----|-----|-----|---|----|----|
| CM11 | 48M0 | A | 50 | -18 | -50 | -40 | -80 | T | LF | XX |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

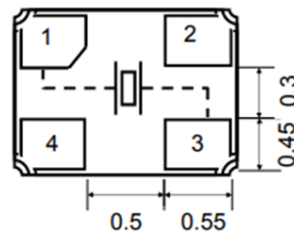
- 1) CM11: MHz SMD Crystal,4 pads, L1.6*W1.2*H0.40mm
- 2) 48M0: Frequency Range 48.000MHz or specify frequency range
- 3) A: Oscillation Mode, A: AT Fund.
- 4) 50: Freq. tolerance, 50: +/-50ppm; 10: +/-10ppm; 20: +/-20ppm; 30: +/-30ppm or Specify value
- 5) 18: Load Capacitance(CL), 15: 15pF; 18: 18pF; 20: 20pF; 30: 30pF or Specify CL value
- 6) 50: Frequency Stability, 50: +/-50ppm;10: +/-10ppm; 20: +/-20ppm; 30: +/-30ppm or Specify value
- 7) 40: Operating Temp. Range, 40: -40°C ~+85°C; 10: -10°C ~+60°C; 20: -20°C ~+70°C; or Specify value
- 8) 80: Equivalent Series Resistance (ESR), 80: 80 ohm Max.
- 9) T: Package in Tape/Reel, 3000pcs/Reel
- 10) LF: RoHS Compliant
- 11) XX: Intenal Control Code, 2 letter or digits; Blank: N/A

DIMENSION (Unit: mm)

Top View

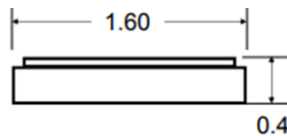


Bottom View



Connection
#1 Crystal
#2 Ground
#3 Crystal
#4 Ground

Side View



Solder Pattern

