

- Miniature size: 5.0mm x 3.2mm x 1.0mm height
- Gold-plated ceramic base with metal seam-welded lid
- To minimize EMI the whole crystal may be grounded
- High shock and vibration resistance
- Ideal for PDAs, GPS, PCMCIA, Wirless LAN etc.







DESCRIPTION

MJ crystals are miniature surface-mount crystals produced with a ceramic substrate and seam-welded metal lid. Their compact size and low mass make MJ crystals ideal for high-density applications.

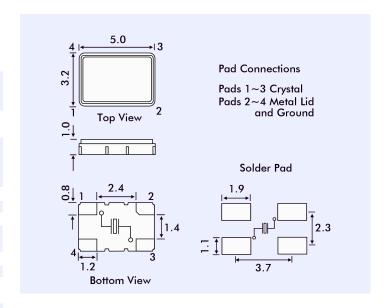
SPECIFICATION

Frequency Range: AT-Cut Fundamental: AT-Cut 3rd overtone:	10.0MHz to 50.0MHz 40.0MHz to 125.0MHz
Calibration Tolerance at 25°C:	from ±5, ±10, ±20ppm (±30ppm standard)
Frequency stability -10° to +60°C -20° to +70°C -40° to +85°C	from ±5ppm from ±10ppm from ±15ppm
Storage Temperature:	-50°~+105°C
Equivalent Series Resistance:	See table
Shunt Capacitance (C0):	2pF to 4pF typical, 5pF maximum
Load Capacitance (CL):	Series or from 10pF to 32pF (Customer specified CL)
Ageing:	<±3ppm per year at +25°C
Drive level:	100μW maximum, 10μW typical
Reflow Soldering:	10s maximum at 260°C twice or 180s at 230°C, once.
Package:	Ceramic base, metal (Kovar) lid, Hermetic seal
Packaging:	EIA tape and reel 1000 pieces per reel
RoHS Status:	RoHS Compliant and pB free

EQUIVALENT SERIES RESISTANCE

Frequency Range MHz	Mode	ESR Ω max.
	AT-Cut Fundamental AT-Cut 3rd overtone	50 80

OUTLINE & DIMENSIONS



PART NUMBER FORMAT

