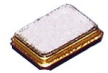


- **Miniature size: 6.0mm x 3.5 x 1.0mm**
- **Tight tolerances available**
- **High shock and vibration resistance**
- **Ideal for PDAs, GPS, PCMCIA and hand-held equipment**



## 6 x 3.5 x 1.0mm SMD

### DESCRIPTION

Miniature surface mount MF crystals incorporate a ceramic substrate and hermetically-sealed metal lid. The compact size and low mass with a high-specification crystal make MF crystals ideal for high density applications as well as hand-held and communications equipment.

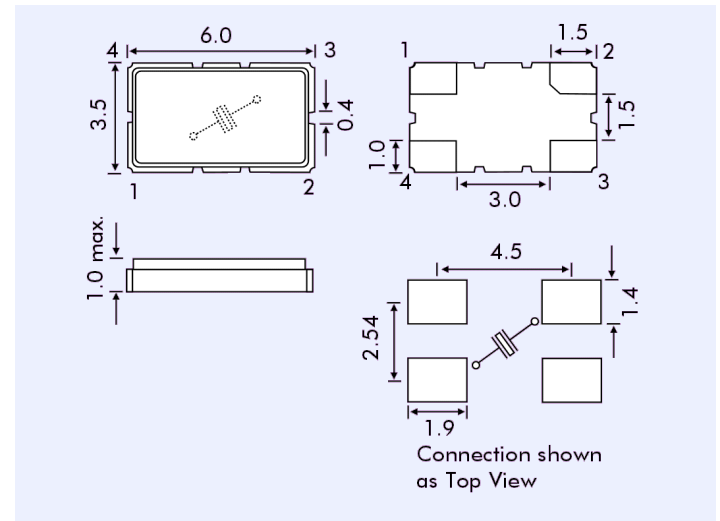
### SPECIFICATION

Frequency Range	
AT-Cut Fundamental:	8.0MHz to 50.0MHz
AT-Cut 3rd Overtone:	30.0MHz to 125.0MHz
Calibration Tolerance at 25°C*:	from ±5ppm, ±10, ±20 (±30ppm standard)
Frequency stability	
-10° to +60°C	from ±5ppm
-20° to +70°C	from ±10ppm
-40° to +85°C	from ±15ppm
-55 to +125°C	from ±20ppm
Storage Temperature:	-55°~+105°C
Equivalent Series Resistance:	See table
Shunt Capacitance (C0):	2pF to 4pF typical, 7pF maximum
Load Capacitance (CL):	Series or from 8pF to 32pF (Customer specified CL)
Ageing:	< ±3ppm per year at +25°C
Drive level:	100 µW maximum
Reflow Soldering:	10s maximum, 260°C twice or 180s at 230°C, once.
Package:	Ceramic base, metal lid, Hermetic seal
Packaging:	16mm EIA tape and reel 1000 pieces per reel
RoHS Status:	RoHS Compliant and pB free

### EQUIVALENT SERIES RESISTANCE

Frequency Range MHz	Crystal Cut/ Mode	ESR Ω Max.
8.0 ~ 12.0	AT Fund.	80
12.1 ~ 16.0	AT Fund.	60
16.1 ~ 50.0	AT Fund.	40
30.0 ~ 40.0	AT 3rd OT	100
40.1 ~ 50.0	AT 3rd OT	80
50.1 ~ 125	AT 3rd OT	50

### OUTLINE & DIMENSIONS



### PART NUMBER FORMAT

