

MF CRYSTALS 6mm x 3.5mm SMD

DESCRIPTION

MF crystals are ultra-miniature surface-mount crystals. Produced with ceramic substrate and hermetically-sealed metal lid the compact size and low mass make this an ideal crystal for high-density applications.

FEATURES

- Ultra miniature size: 6.0mm x 3.5mm x 1.0mm height
- Gold-plated ceramic base with metal seam-welded lid
- Extremely low ageing
- High shock and vibration resistance
- Ideal for PDAs, GPS, PCMCIA and hand-held equipment

GENERAL SPECIFICATION

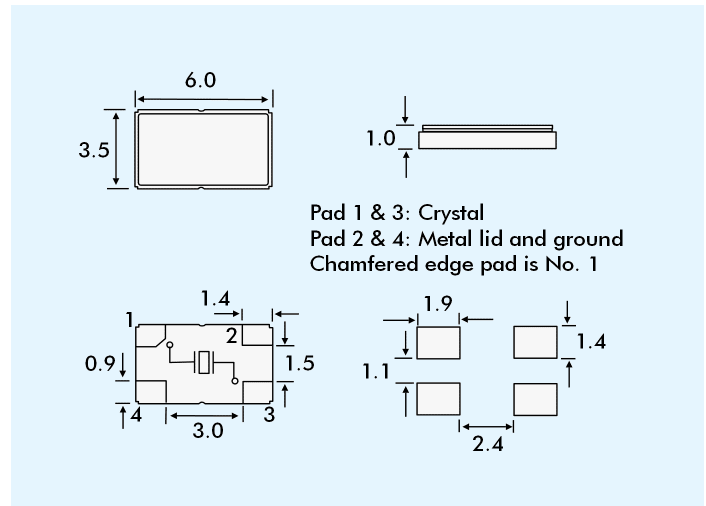
Frequency Range	
AT-Cut Fundamental:	12MHz to 50.0MHz
AT-Cut 3rd Overtone:	40.0MHz to 100.0MHz
Calibration Tolerance at 25°C*:	±10ppm, ±20ppm or ±30ppm
Frequency stability over temp**.	
Range -20° to +70°C:	±5ppm, ±10ppm or ±30ppm
Range -30° to +85°C:	±10ppm
Storage Temperature:	-40° ~ +85°C
Shunt Capacitance (C0):	2pF to 4pF typical, 5pF maximum
Load Capacitance (CL):	Series or 10pF to 32pF (Customer specified CL)
Ageing:	< ±3ppm per year at +25°C
Drive level:	100mW max
Reflow Soldering:	10s maximum at 260°C two times or 180s at 230°C, once.
Holder:	Ceramic base, metal lid, hermetic seal
Packaging:	16mm EIA tape and reel 3000 pieces per reel

Notes:

* Calibration Tolerance of ±5ppm at 25°C is available

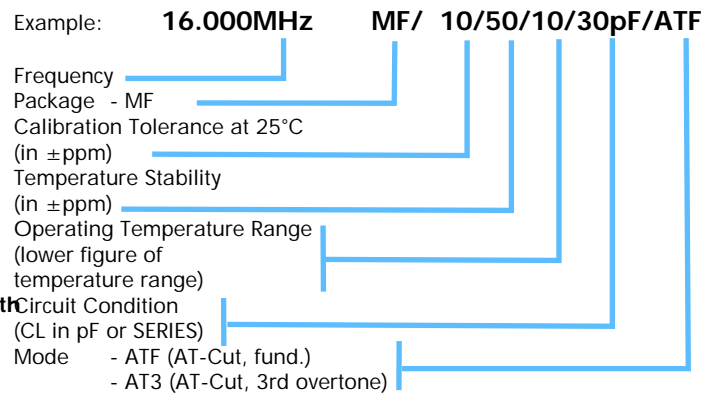
** Tighter tolerance, and lower ESR parameters are available, check with Euroquartz technical sales.

OUTLINES AND DIMENSIONS



PART NUMBER GENERATION

MF crystal part numbers are derived as follows:



OSCILLATION MODE & ESR

Frequency (MHz)	Crystal Cut Oscillation Mode	ESR (max) (Ohms)
12 ~ 16	AT Fund.	80
16.1 ~ 50	AT Fund.	40
40 ~ 67	AT 3rd OT	70
67.0 ~ 100	AT 3rd OT	90

STOCKHOLDING AND CUSTOM PARTS

Certain frequencies and specification of MF crystals are stocked by Euroquartz. Custom frequencies and specifications are readily manufactured to order on short lead times. Contact Euroquartz sales office for details.