



3.2 x 2.5 x 0.7mm SMD

- Frequency range 12MHz to 60MHz, fundamental mode
- Frequency Range 60MHz to 150MHz, 3rd overtone mode
- Ultra-small package 3.2mm x 2.5mm x 0.6mm
- Packaged in standard EIA tape and reel
- Ideal for PDAs, hand-held GPS, PCMCIA etc.





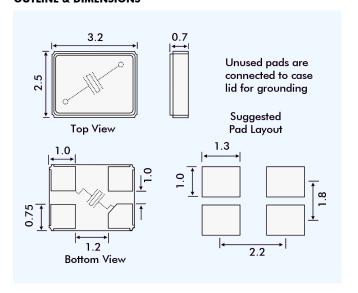
DESCRIPTION

MT crystals are ultra-miniature AT-cut crystals covering the frequency range 12MHz to 60MHz in fundamental mode and up to 150MHz in 3rd overtone mode. Their small size and low mass makes these crystals ideal for miniaturized hand-held equipment and similar high-density applications.

SPECIFICATION

Frequency Range AT-Cut Fundamental: 12.0MHz to 60.0MHz AT-Cut 3rd Overtone: 60.0MHz to 150MHz Calibration Tolerance at 25°C*: ±10ppm, ±20ppm, ±30ppm Frequency stability* -10° to +60°C from ±5ppm -20° to +70°C from ±10ppm -30° to +85°C from ±10ppm Storage Temperature: -40°~+85°C Equivalent Series Resistance: See table 2pF to 4pF typical, 5pF maximum Shunt Capacitance (C0): Load Capacitance (CL): Series or from 10pF to 32pF (12pF standard) Ageing: <±3ppm per year at +25°C Drive level: 100 microW maximum 10s maximum at 260°C twice Reflow Soldering: or 180s at 230°C, once. Packaging: 16mm EIA tape and reel

OUTLINE & DIMENSIONS



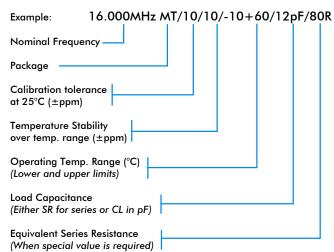
*Note: Tighter stability, tolerance and lower ESR values are available.

STANDARD PART NUMBERS AND SPECIFICATIONS

Frequency (MHz)	CL (pF)	Euroquartz Part Number	Tolerance (±ppm)/ Stability (±ppm)/ Temp. Range (°C)/ Max. ESR (Ohms)
16.0000	12	MT-16000-12	30/50/-20+70/100R
16.3840	12	MT-16384-12	30/50/-20+70/100R
20.0000	12	MT-20000-12	30/50/-20+70/100R
20.5720	12	MT-20572-12	30/50/-20+70/50R
20.9450	12	MT-20945-12	30/50/-20+70/50R
24.5500	12	MT-24550-12	30/50/-20+70/50R
24.5760	12	MT-24576-12	30/50/-20+70/50R
29.4912	12	MT-29491-12	30/50/-20+70/50R
32.0000	12	MT-32000-12	30/50/-20+70/50R
32.7680	12	MT-32768-12	30/50/-20+70/50R
40.0000	12	MT-40000-12	30/50/-20+70/50R
48.0000	12	MT-48000-12	30/50/-20+70/50R
50.0000	12	MT-50000-12	30/50/-20+70/50R

PART NUMBER GENERATION

Part numbers for MT crystals are generated as follows:



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