

### FEATURES

- Frequency range 491.520MHz to 1,000MHz
- Ultra-small package 3.2mm x 2.5mm x 0.7mm
- Entire package may be grounded via metal lid and two pads
- Packaged in standard EIA tape and reel
- Ideal for PDAs, hand-held GPS, PCMCIA etc.



### DESCRIPTION

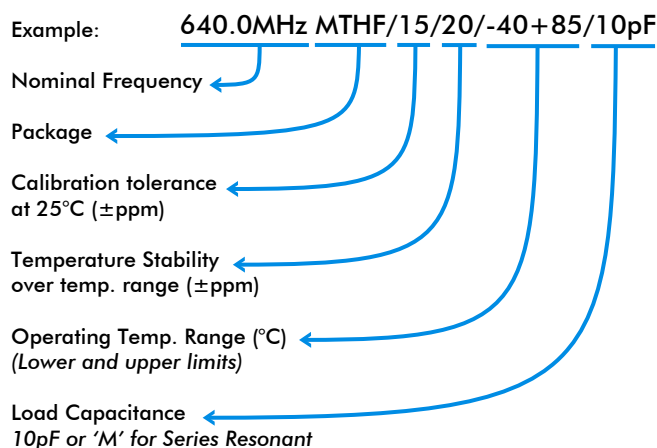
Ultra-miniature AT-cut crystals covering the frequency range 491.520MHz to 1.0GHz. Their small size and low mass makes these crystals ideal for miniaturized hand-held equipment and similar high-density applications.

### SPECIFICATION

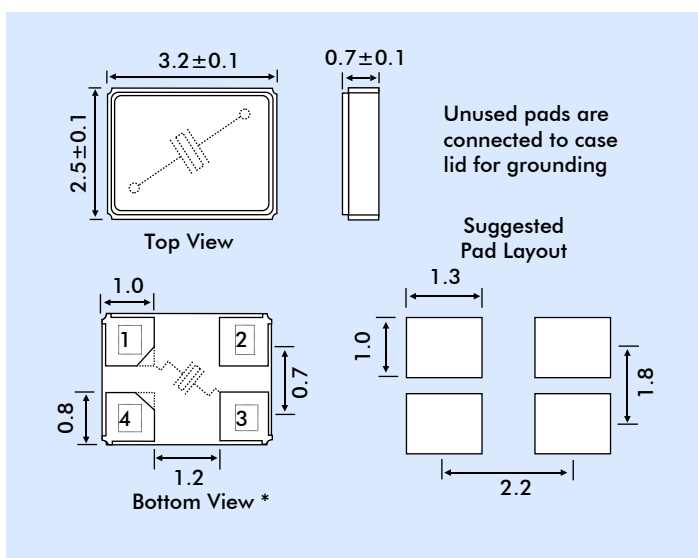
Frequency Range:	491.520MHz to 1,000MHz
Calibration Tolerance at 25°C:	±10ppm, ±15ppm, ±20ppm
Frequency stability*	
-40°C to +85°C:	±10ppm, ±20ppm
-55°C to +125°C:	±20ppm, ±30ppm, ±50ppm
Equivalent Series Resistance:	30Ω max. (f=640MHz)
Load Capacitance (CL):	10pF typical
Shunt Capacitance (C0):	6.0pF typical
Motional Capacitance (C1):	1.6fF typical (f=640MHz)
Ageing:	±5ppm max at +25°C per year
Drive level:	500μW max
Packaging:	8mm EIA tape and reel

### PART NUMBER GENERATION

Part numbers for MTHF crystals are generated as follows:



### OUTLINE & DIMENSIONS



\* Pad Connections:  
 Pad 1 and 3: Crystal  
 Chamfered pad can be Nos.1 or 4