EURO QUARTZ

High Frequency Crystals

491.520MHz to 1,000MHz

MTHF Crystals

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:

Example:	640.0MHz	MTHF/15/	/20/-40-	+85/10	ЭрF
Nominal Freque	ency 🗸	ΤT	Τ-		
Package 🔶		~]			
Calibration tole at 25°C (±ppm)	rance 🗲				
Temperature Sto over temp. rang	ability 🖌 je (±ppm)				
Operating Temp (Lower and uppe	o. Range (°C) < er limits)				
Load Capacitan	ce Series Resonant				

OUTLINE & DIMENSIONS



* Pad Connections: Pad 1 and 3: Crystal

Chamfered pad can be Nos.1 or 4