EURO QUARTZ

4 x 2.5 x 0.6mm SMD

FEATURES

- Miniature package: 4.0 x 2.5 x 0.6mm
- Gold-plated ceramic base with metal seam-welded package
 Very low ageing
- Designed for hand-held equipment, PDAs, Blue Tooth, GPS
- High shock and vibration resistance

DESCRIPTION

X42 crystals are micro-miniature surface-mount mount crystals. The crystals have a gold plated ceramic base with a seam welded metal lid providing a stable crystal with very low ageing. The rugged construction ensures that this crystal has high shock and vibration resistance. The crystal has been specifically designed for use in small hand-held communication equipment such as PDAs, GPS and Bluetooth.

SPECIFICATION

Frequency Range:	10.0MHz to 60.0MHz	
Operating Mode:	AT-Cut Fundamental:	
Calibration Tolerance at 25°C*:	from ±5ppm	
	$(\pm 10, \pm 20 \text{ or } \pm 30 \text{ ppm standard})$	
Frequency stability*		
-10° to +60°C	from ±5ppm	
-20° to +70°C	from ±10ppm	
-30° to +85°C	from ±10ppm	
Storage Temperature:	-50°~+105°C	
Equivalent Series Resistance:	See table	
Shunt Capacitance (C0):	2pF to 4pF typical, 5pF maximum	
Load Capacitance (CL):	Series or from 10pF to 32pF	
	(Customer specified CL)	
Ageing:	<±3ppm per year at +25°C	
Drive level:	$100 \mu\text{W}$ maximum	
Reflow Soldering:	10s maximum at 260°C twice or 180s at 230°C, once.	
Packaging:	12mm EIA tape and reel	

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

EQUIVALENT SERIES RESISTANCE (ESR)

Frequency Range MHz	Crystal Cut/ Mode	ESR Ω Max.
12.0 ~ 20.0	AT Fund.	80
20.1 ~ 60.0	AT Fund.	60

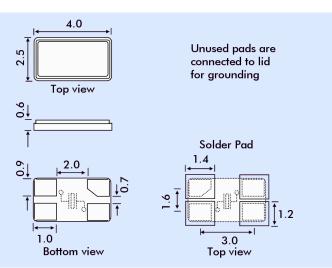




X42 CRYSTALS

10.0MHz to 60MHz

OUTLINE & DIMENSIONS



PART NUMBER GENERATION

Part numbers for X42 crystals are generated as follows:

