



HIGH FREQUENCY FUNDAMENTAL & 3rd O/T CRYSTALS IN UM-1 PACKAGE - XHFF Series

FEATURES

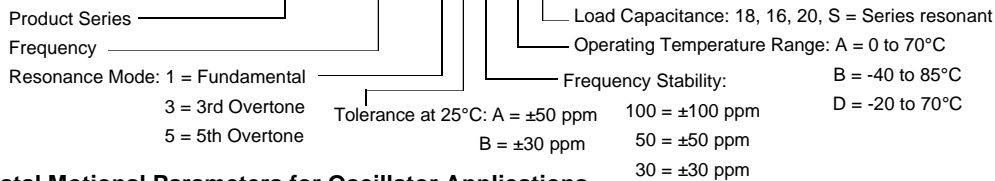
- RoHS Compliant (Pb-Free), Inverted Mesa Technology, AT-cut Quartz Resonator
- Designed for VCXO in Phase Lock Loop (PLL) Applications
- Industry Standard Package, Compact Size
- Optional Metal Jacket for SMT

SPECIFICATIONS

Frequency Range	50 MHz to 300.00 MHz
Resonance Mode	1 = Fundamental (50 to 180 MHz); 3 = 3rd Overtone (150 to 300 MHz)
Calibration Tolerance @25°C	A = ±50 ppm; B = ±30 ppm; C = ±20 ppm; D = ±15 ppm; E = ±10 ppm
Frequency Stability Ref @25°C	100 = ±100 ppm; 50 = ±50 ppm; 25 = ±25 ppm; 10 = ±10 ppm
Temperature Range	A = 0°C to 70°C; B = -40°C to 85°C; C = -10°C to 60°C; D = -20°C to 70°C
Crystal Aging	±5 ppm Maximum, 1st year
Storage Temperature	-55°C to 125°C
Load Capacitance (CL)	CL = 10 pF (Standard), 16 pF, 18 pF, others, or S = Series resonant
Shunt Capacitance	7 pF Maximum
Drive Level	0.1 mW Typical, 1 mW Maximum
Pullability (option)	May be specified in terms of frequency shift over a certain range of CL

Creating a Part Number

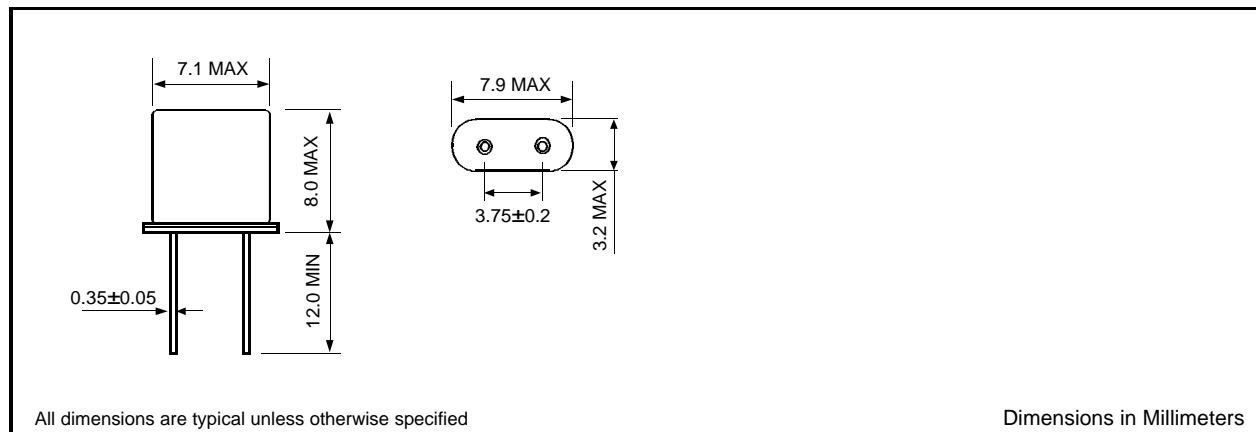
XHFF-155M520-1 B 30 D10 -options



Typical Crystal Motional Parameters for Oscillator Applications

Frequency (MHz)	Mode	ESR (Ohms)	C1 (fF)
50 - 80	Fund	20	10
80 - 120	Fund	25	6
120 - 180	Fund	25	4
150 - 180	3rd O/T	80	0.8
180 - 220	3rd O/T	100	0.6
220 - 300	3rd O/T	120	0.5

OUTLINE DRAWING



Quartz Crystal Resonators

OUTLINE DRAWING (SMT Configuration)

