



HIGH STABILITY FUNDAMENTAL CRYSTALS IN VACUUM SEALED PACKAGE - XHFF45 Series

FEATURES

- Inverted Mesa Technology for High Frequency, AT-cut Quartz Resonator, Wide Frequency Range
- Designed for VCXO in Phase Lock Loop (PLL) Applications, TCXO, and OCXO
- Vacuum Sealed Package, Compact Size, Industry Standard Lead Spacing
- Very Low Aging

SPECIFICATIONS

Frequency Range 10 MHz to 225.00 MHz, Fundamental mode

Typical Crystal Parameters

Frequency, MHz	10.000	30.000	50.000	100.000	150.000	225.000
Overtone	1	1	1	1	1	1
Calibration at 25°C, ppm	3	5	10	20	25	25
Temp. Stability, -30 to 70C, ppm	10-15	15	15	15	15	15
Q-factor, 1E+3	150	70	60	30	20	35
Motional Capacitance, C1, fF	7.5	7.0	10.0	5.0	7.0	0.5
ESR, Ohms	15	10	15	20	25	80
Static Capacitance, C0, pF	4.0	5.0	3.0	1.5	1.5	1.5
Spurious, dB, Max	>20	>20	>20	>20	>20	>20
Aging, first year, ppm	1	2	3	5	5	5

Note: □ The above specifications are typical. Any crystal in the frequency range can be manufactured.
 □ The crystals can be produced to tailor customized motional parameters.

Mechanical and Environmental

Storage Temperature -60°C to 125°C
Operating Temperature -60°C to 90°C
Shock 150G, 5 ms
Vibration (non-operating) □ 5G, 10 to 2000 Hz
Soldering Conditions 260°C, for 10 s Max.
Seal Leak rate less than 1x10E-8 atm.cc/s of He

Typical Part Number XHFF45-Frequency-Load or Series

OUTLINE DRAWING

