

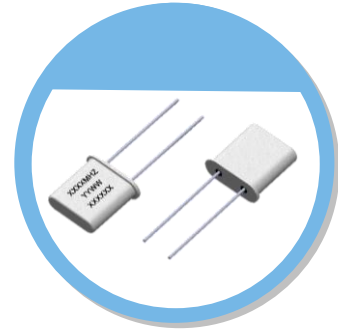
XH(UM-1) Type

FEATURE

- Low Cost due to Resistance Weld Package
- Miniature
- Low Power Consumption (AT cut, Vacuum Sealed)
- Fast Thermal Transmission (especially when Filled with Nitrogen)

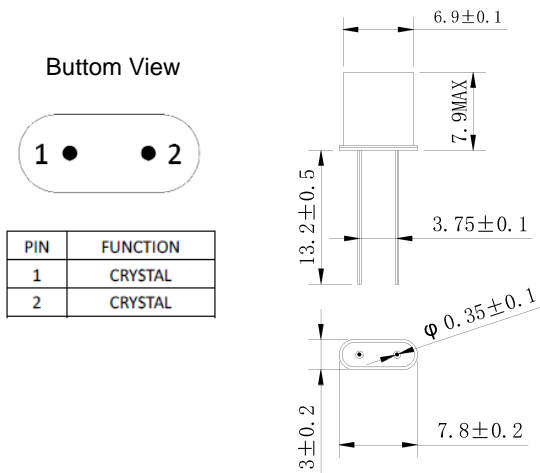
TYPICAL APPLICATION

- Precision OCXO, VCXO and TCXO oscillators



RoHS Compliant

DIMENSION (mm)



EQUIVALENT SERIES RESISTANCE (E.S.R)

Frequency Range	MODE(Cut)	E.S.R.
8 MHz ≤ Fo ≤ 10 MHz	AT Fundamental	≤ 40Ω
10 MHz < Fo ≤ 20 MHz	AT Fundamental	≤ 35Ω
20 MHz < Fo ≤ 40 MHz	AT 3 rd OT	≤ 40Ω
40 MHz < Fo ≤ 80 MHz	AT 3 rd OT	≤ 60Ω
70 MHz < Fo ≤ 250 MHz	AT Fundamental	≤ 55Ω

ELECTRICAL SPECIFICATION

Parameter	Min.	Typical	Max.	Unit
Operating Temp. Range	-55		+125	°C
Standard Frequency		20, 25.6, 30, 50		MHz
Turn Point		+75°C to +105°C (mode, cut, frequency dependent, other turn points available)		°C
Frequency Tolerance @ Turn Point	±3	±5	±10	ppm
Level of Drive		100	500	μW
Shunt Capacitance (C0)			7.0	pF
Insulation Resistance	500MΩ @ DC100V			
Aging		±0.5 to ±1.0		ppm/year

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

STANDARD OPTIONS

Nominal Frequency(MHz)	MODE(Cut)	R(Ω)	C0(pF)	C1(fF)	Q(Typical)	Aging(ppm/year)
20 MHz	AT 3 rd OT	< 40	< 3.0	1.2 ± 20%	250k	0.5
24 MHz	AT 3 rd OT	< 30	< 3.0	1.1 ± 20%	300k	0.5
26 MHz	AT 3 rd OT	< 30	< 3.0	1.1 ± 20%	270k	0.5
38.88 MHz	AT 3 rd OT	< 30	< 5.0	1.9 ± 20%	220k	0.5
70 MHz	AT Fundamental	< 50	< 0.65	1.3 ± 20%		1
124.8 MHz	AT Fundamental	< 55	< 0.55	0.9 ± 20%		1

Note: not all combination of options are available. Other specifications may be available upon request.