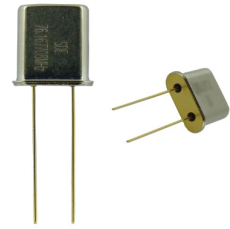




DESCRIPTION

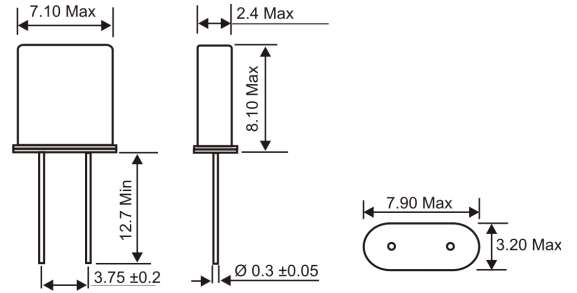
This UM-1 crystal is available with a wide frequency range (7.000MHz to 200.000MHz), grade tight tolerances. Packages have a small footprint ideal for space limited applications.



ELECTRICAL SPECIFICATION

Frequency Range	7.000 to 200.000MHz
Load Capacitance	16pF to Series
Frequency Tolerance (at 25 °C)	±50ppM Maximum
Frequency Stability in Temperature	±50ppM Maximum
Operating Temperature Range	-10 °C to +60 °C Standard (or Optional)
Storage Temperature Range	-40 °C to +85 °C
Equivalent Series Resistance (ESR)	See ESR Table
Drive Level	1.0mW Maximum
Shunt Capacitance	7pF Maximum
Aging (at 25 °C)	±3ppM per year
Insulation Resistance	500 MOhm Minimum

MECHANICAL DIMENSIONS (all in mm)



FREQUENCY RANGE AND OSCILLATION MODE

Fundamental (F)	7.000 to 50.000MHz
Third Overtone (3OT)	30.000 to 150.000MHz
Fifth Overtone (5OT)	80.000 to 200.000MHz

ESR TABLE (Ohms)

7.0 to 9.9MHz	80
10.0 to 15.9MHz	80
16.0 to 50MHz	30
30.0 to 150.0MHz (Third Overtone)	80
80.0 to 200.0MHz (Fifth Overtone)	100

PART NUMBERING SYSTEM (Example)

