

RESISTANCE WELD MINIATURE THRU-HOLE PACKAGE - UM1 Series

FEATURES

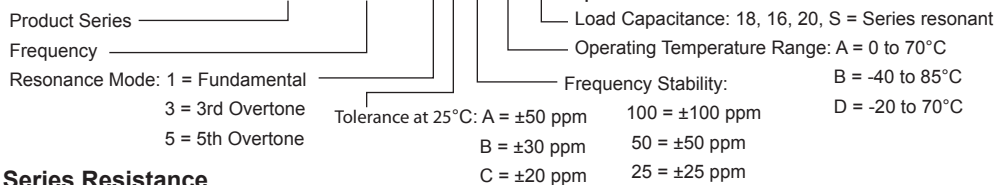
- RoHS Compliant (Pb-Free), Wide Frequency Range Available
- AT-cut Crystal, High Precision and Excellent Aging, Extended Temperature Range
- Industry Standard Package, Compact Size
- Optional Metal Jacket for SMT

SPECIFICATIONS

Frequency Range	3.6864 MHz to 225.000 MHz
Resonance Mode	1 = Fundamental (3.6864 to 45 MHz); 3 = 3rd Overtone (30 to 125 MHz) 5 = 5th Overtone (100 to 225 MHz); 7 = 7th Overtone (100 to 225 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 / year Maximum
Storage Temperature	-55°C to 125°C
Load Capacitance (CL)	CL = 18 pF (Standard), 16 pF, 20 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

UM1-125M000-3 B 30 D 18 -options



Equivalent Series Resistance

Frequency (MHz)	Mode	Max ESR (Ohms)
3.686 - 3.999	Fund	250
4.000 - 4.999	Fund	200
5.000 - 5.999	Fund	150
6.000 - 6.999	Fund	120
7.000 - 7.999	Fund	100
8.000 - 9.999	Fund	90
10.000 - 10.999	Fund	60

Frequency (MHz)	Mode	Max ESR (Ohms)
11.000 - 45.000	Fund	40
30.000 - 125.00	3rd O/T	45
100.00 - 225.00	5th O/T	100
100.00 - 225.00	7th O/T	150

OUTLINE DRAWING

