E1M3CAA8-16.000M

E1M 3 C A A 8 -16.000M

Series
RoHS Compliant (Pb-free) Resistance Welded UM-1 Crystal

Frequency Tolerance
±15ppm

Frequency Stability
±15ppm

Operating Temperature Range
0°C to +50°C

Mode of Operation
Fundamental

Load Capacitance
8pF Parallel Resonant

Nominal Frequency
16.000MHz

ELECTRICAL SPECIFICATIONS

Nominal Frequency	16.000MHz
Frequency Tolerance	±15ppm
Frequency Stability	±15ppm
Aging at 25°C	±1ppm/year Maximum
Operating Temperature Range	0°C to +50°C
Load Capacitance	8pF Parallel Resonant
Shunt Capacitance (C0)	7pF Maximum
Equivalent Series Resistance	40 Ohms Maximum
Mode of Operation	Fundamental
Drive Level	10µWatts Maximum
Crystal Cut	AT-Cut
Storage Temperature Range	-55°C to +125°C
Insulation Resistance	500 Megaohms Minimum (Measured at 100Vdc)

ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

ESD Susceptibility	MIL-STD-883, Method 3015, Class 1, HBM: 1500V
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Flammability	UL94-V0
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Lead Integrity	MIL-STD-883, Method 2004
Mechanical Shock	MIL-STD-202, Method 213, Condition C
Moisture Resistance	MIL-STD-883, Method 1004
Moisture Sensitivity	J-STD-020, MSL 1
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K
Resistance to Solvents	MIL-STD-202, Method 215
Solderability	MIL-STD-883, Method 2003
Temperature Cycling	MIL-STD-883, Method 1010, Condition B
Vibration	MIL-STD-883, Method 2007, Condition A

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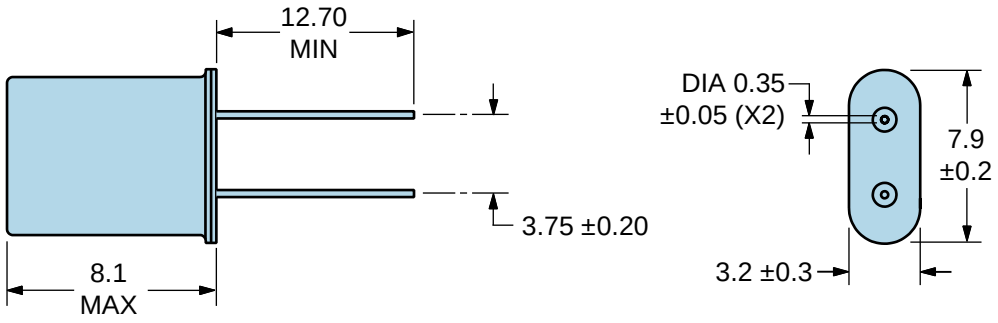
MECHANICAL DIMENSIONS (all dimensions in millimeters)

LINE	MARKING
1	**E16.00** *E=Ecliptek Designator*
2	**XXXXX** *XXXXX=Ecliptek Manufacturing Identifier*