## ECCM8LA10-20.000M

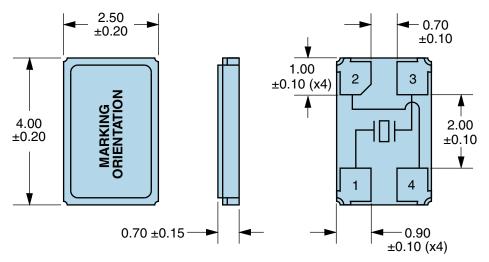




ELECTRICAL SPECIFICATIONS		
Nominal Frequency	20.000MHz	
Frequency Tolerance/Stability	±15ppm at 25°C, ±20ppm over -20°C to +70°C	
Aging at 25°C	±3ppm/Year Maximum	
Load Capacitance	10pF Parallel Resonant	
Shunt Capacitance (C0)	5pF Maximum	
Equivalent Series Resistance	60 Ohms Maximum	
Mode of Operation	AT-Cut Fundamental	
Drive Level	100μWatts Maximum, 10μWatts Correlation	
Crystal Cut	AT-Cut	
Spurious Response	>3dB from Fo to Fo+5000ppm	
Drive Level Dependancy (DLD2)	20% of Maximum ESR Limit (from 1μWatt to 100μWatt)	
Insulation Resistance	500 Megaohms Minimum 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	
Mechanical Shock	MIL-STD-883, Method 2002, Condition B	
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	

## **MECHANICAL DIMENSIONS (all dimensions in millimeters)**



PIN	CONNECTION
1	Crystal
2	Cover/Ground
3	Crystal
4	Cover/Ground

LINE	MARKING
1	E=Ecliptek
2	XXXXX XXXXX=Ecliptek Manufacturing Identifier