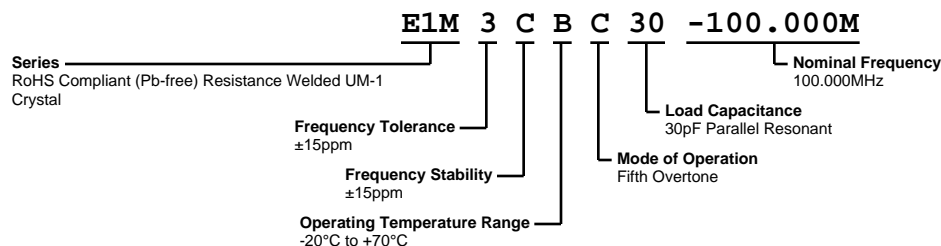


# E1M3CBC30-100.000M



**ECLIPTEK**  
CORPORATION



## ELECTRICAL SPECIFICATIONS

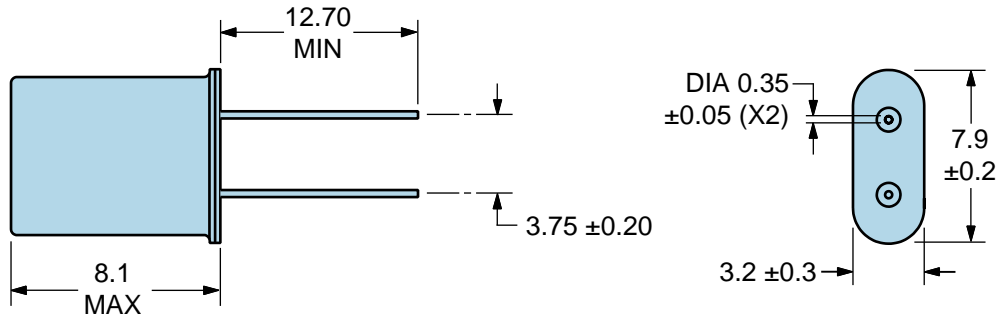
Nominal Frequency	100.000MHz
Frequency Tolerance	$\pm 15\text{ppm}$
Frequency Stability	$\pm 15\text{ppm}$
Aging at $25^{\circ}\text{C}$	$\pm 1\text{ppm/year}$ Maximum
Operating Temperature Range	$-20^{\circ}\text{C}$ to $+70^{\circ}\text{C}$
Load Capacitance	30pF Parallel Resonant
Shunt Capacitance (C0)	7pF Maximum
Equivalent Series Resistance	150 Ohms Maximum
Mode of Operation	Fifth Overtone
Drive Level	100 $\mu$ Watts Maximum
Crystal Cut	AT-Cut
Storage Temperature Range	$-55^{\circ}\text{C}$ to $+125^{\circ}\text{C}$
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	<b>E100.0</b> <i>E=Ecliptek Designator</i>
2	<b>XXXXX</b> <i>XXXXX=Ecliptek Manufacturing Identifier</i>