

# E1M2BAB20-64.000M

[Click part number to visit Part Number Details page](#)

## REGULATORY COMPLIANCE (Data Sheet downloaded on Apr 18, 2017)


[Click badges to download compliance docs](#)

Regulatory Compliance standards are subject to updates by governing bodies. Click the badges to download the latest compliance docs for this part number directly from Ecliptek.



## ITEM DESCRIPTION

64.000MHz  $\pm 10$ ppm 20pF Parallel Resonant

## ELECTRICAL SPECIFICATIONS

|                              |                                           |
|------------------------------|-------------------------------------------|
| Nominal Frequency            | 64.000MHz                                 |
| Frequency Tolerance          | $\pm 10$ ppm                              |
| Frequency Stability          | $\pm 10$ ppm                              |
| Aging at 25°C                | $\pm 1$ ppm/year Maximum                  |
| Operating Temperature Range  | 0°C to +50°C                              |
| Load Capacitance             | 20pF Parallel Resonant                    |
| Shunt Capacitance (C0)       | 7pF Maximum                               |
| Equivalent Series Resistance | 70 Ohms Maximum                           |
| Mode of Operation            | Third Overtone                            |
| Drive Level                  | 100 $\mu$ Watts 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         |

**E1M2BAB20-64.000M**

[Click part number to visit Part Number Details page](#)

MECHANICAL DIMENSIONS (all dimensions in millimeters)

| LINE | MARKING                                                          |
|------|------------------------------------------------------------------|
| 1    | <b>E64.00</b><br><i>E=Ecliptek Designator</i>                    |
| 2    | <b>XXXXXX</b><br><i>XXXXXX=Ecliptek Manufacturing Identifier</i> |

