



**THE DATASHEET OF
ABM8-50.000MHZ-B1U-T**



CERAMIC SMD CRYSTAL



ABM8

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive-MSL = N/A: Not Applicable



RoHS
Compliant

3.2 x 2.5 x 0.8mm

FEATURES:

- Seam sealed package assures high reliability
- Tight tolerance and stability available
- Suitable for RoHS reflow

APPLICATIONS:

- High density applications
- Modems, communication and test equipment
- PCMCIA, Wireless applications

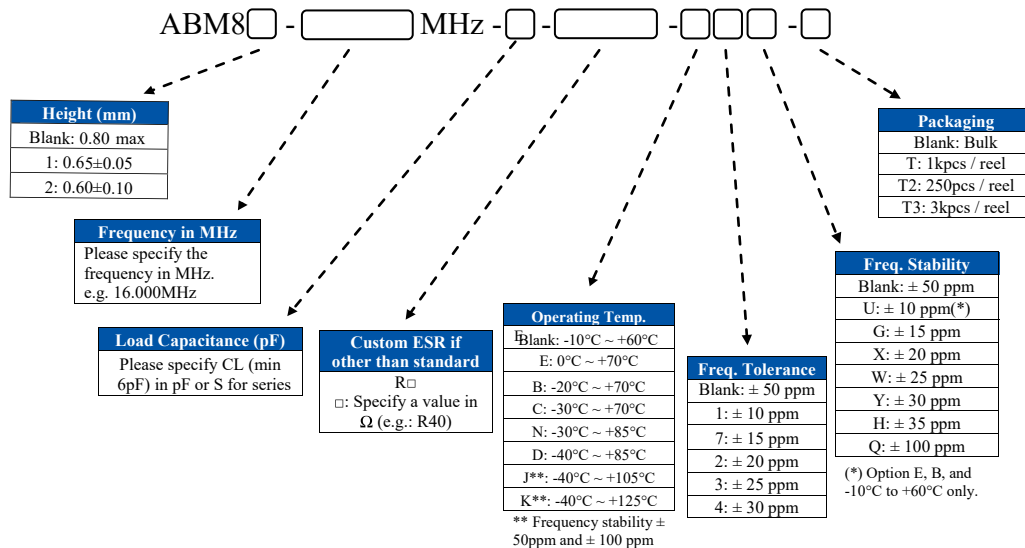
STANDARD SPECIFICATIONS:

| Parameters | Minimum | Typical | Maximum | Units | Notes |
|---|--|---------|----------|-------|--|
| Frequency Range | 8.000 | | 125.000* | MHz | Contact Abracon for available F<10MHz |
| Operation Mode | Fundamental | | | | 8MHz - 54MHz |
| | 3rd Overtone (Standard Frequencies: 64, 66, 66.6666, 75, 80, 98.304, 100, 125MHz) | | | | 64MHz - 125MHz Please contact Abracon for available frequencies |
| Operating Temperature | -10 | | +60 | °C | Standard (see options if other than STD) |
| Storage Temperature | -55 | | +125 | °C | |
| Frequency Tolerance @+25°C | -50 | | +50 | ppm | Standard (see options if other than STD) |
| Frequency Stability over the Operating Temperature (ref. to +25°C) | -50 | | +50 | ppm | Standard (see options if other than STD) |
| Equivalent series resistance (R1) | See table 1 below | | | Ω | |
| Shunt capacitance (C0) | | | 3.0 | pF | |
| Load capacitance (CL) | | 18.0 | | pF | Standard (See options if other than STD) |
| Drive Level | | 10 | 100 | μW | |
| Aging | -2 | | +2 | ppm | @25°C±3°C First year |
| Insulation Resistance | 500 | | | MΩ | @ 100Vdc ± 15V |

TABLE 1- Standard ESR

| Frequency (MHz) | ESR(Ω) max | Frequency (MHz) | ESR(Ω) max |
|------------------------|------------|---------------------------|------------|
| 8.000-9.999 (Fund) | 400 | 30.000 - 39.999 (Fund) | 40 |
| 10.000 -11.999 (Fund) | 200 | 40.000 - 54.000 (Fund) | 35 |
| 12.000 -15.999 (Fund) | 120 | 64.000 - 80.000 (3rd OT) | 120 |
| 16.000 -19.999 (Fund) | 70 | 98.304 - 125.000 (3rd OT) | 80 |
| 20.000 - 29.999 (Fund) | 50 | | |

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)



Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View ABM8-50.000MHZ-B1U-T on WIN SOURCE](#)
- ⊖ [Abracon LLC Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management