ULTRA MINIATURE CERAMIC PACKAGE HIGH STABILITY SMD CRYSTAL



3.2 x 2.5 x 0.6mm

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

(Pb)

- -40°C to +125°C wide operating temperature range
- ±40 ppm Max. All Inclusive frequency stability over 10-year product life
- Fundamental Mode, low ESR Quartz design
- Ultra miniature, Seam-Sealed, RoHS compliant reflow-able package
- > APPLICATIONS:
 - Zigbee based designs for indoor / outdoor applications
 - Wireless Sensor Networks
 - Industrial Control
 - Home and Building Automation

RoHS/RoHS II Compliant

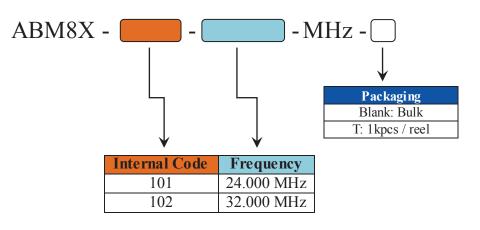
- Consumer Electronics
- PC Peripherals

STANDARD SPECIFICATIONS

ABM8X

| Parameters | Minimum | Typical | Maximum | Units | Notes |
|---|-------------|------------------|---------|-------|------------------|
| Center Frequency | | 24.000 32.000 | | MHz | |
| Operation Mode | Fundamental | | | | |
| Operating Temperature | -40 | | +125 | °C | |
| Storage Temperature | -55 | | +155 | °C | |
| Overall Frequency Stability (All inclusive) | -40 | | +40 | ppm | |
| Frequency Tolerance | -10 | | +10 | ppm | |
| Frequency Stability over the Operating Temperature Range (ref. to +25°C) | -25 | | +25 | ppm | |
| Aging | -5 | | +5 | ppm | @25±3°C 10 years |
| Equivalent series resistance (R1) | | | 60 | Ω | |
| Shunt capacitance (C0) | | | 2.5 | pF | |
| Motional capacitance (C1) | | 2.0 | | fF | |
| Load capacitance (CL) | | 10 | | pF | |
| Drive Level | | 50 | 100 | μW | |
| Insulation Resistance | 500 | | | MΩ | @100Vdc±15V |

Options and Part Identification (left blank if standard)



Example Part #:

ABM8X-101-24.000MHz-T









RoHS/RoHS II Compliant

Pb

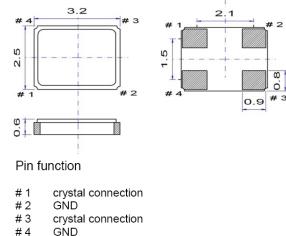
TAPE & REEL:

Top view

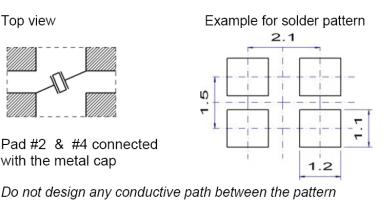




ABM8X



Pad #2 & #4 connected with the metal cap



Dimensions: mm

REFLOW PROFILE:

T°C 10s max. 1 time at +260°C±5°C 00 260°C 230°C Temperature 30~40s 180°C 150°C 60~90s 60~120s 25°C (s) Reflow Pre-Heat Cool Time (seconds)

1000pcs/reel FEEDING (PULL) DIRECTION -2.0±0.1 1.75±0.1 - 4.0±0.1 Ø1 5 0.3±.05 3.5±0. 8.0±0.3 5±0. ø1.05 2.9±0.1 4.0±0. 1.5 max. 9.0±0.3 2.0 ø13.0±0.5 2.5 80± 8000 ø21.0±1 120 Dimensions: mm



ABRACON IS ISO9001:2008

CERTIFIED

Need a test socket for the ABM8X Series? To view compatible PRECISION TEST & BURN-IN SOCKETS for these parts, click here. P/N AXS-3225-04-01

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