ULTRA MINIATURE CERAMIC PACKAGE HIGH STABILITY SMD CRYSTAL

ABM8X





3.2 x 2.5 x 0.6mm

FEATURES:

- -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

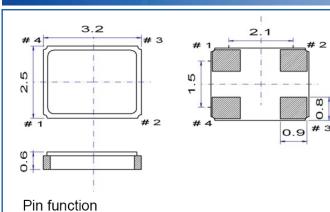
> APPLICATIONS:

- Zigbee based designs for indoor / outdoor applications
- Wireless Sensor Networks
- Industrial Control
- Home and Building Automation
- Consumer Electronics
- PC Peripherals

STANDARD SPECIFICATIONS

| 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 | | | ΜΩ | @100Vdc±15V |

OUTLINE DIMENSIONS:



Top view

Dimensions: mm

Example for solder pattern

2.1

Pad #2 & #4 connected with the metal cap

Do not design any conductive path between the pattern

1 crystal connection

#2 GND

#3 crystal connection

#4 **GND**



ULTRA MINIATURE CERAMIC PACKAGE HIGH STABILITY SMD CRYSTAL



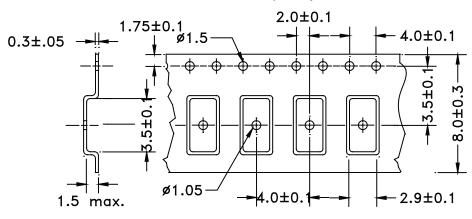


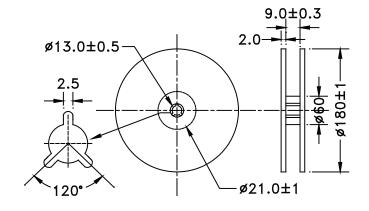


TAPE & REEL

1000pcs/reel

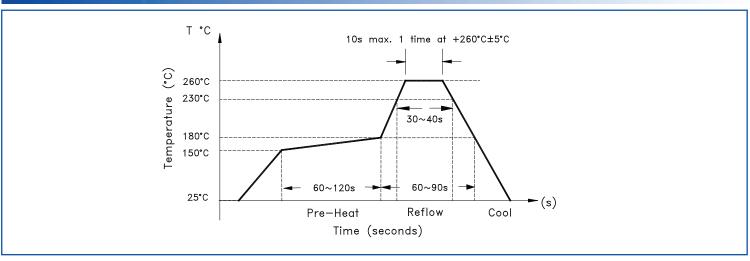
FEEDING (PULL) DIRECTION -----





Dimensions: mm

REFLOW PROFILE





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**

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



