

ULTRA MINIATURE CERAMIC PACKAGE HIGH STABILITY SMD CRYSTAL

ABM3X



5.0 x 3.2 x 0.9mm

ABM3X



RoHS
Compliant

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) | ----- | ----- | 30 | Ω | |
| Shunt capacitance (C0) | ----- | ----- | 3.5 | pF | |
| Motional capacitance (C1) | ----- | 4.5 | ----- | fF | |
| Load capacitance (CL) | ----- | 10 | ----- | pF | |
| Drive Level | 50 | ----- | 100 | μW | |
| Insulation Resistance | 500 | ----- | ----- | MΩ | @100Vdc±15V |

OPTIONS AND PART IDENTIFICATION:

ABM3X - MHz -

| Frequency in MHz |
|---------------------------|
| 24.000MHz or 32.000MHz |

| Packaging |
|-----------------|
| Blank: Bulk |
| T: 1kpcs / reel |



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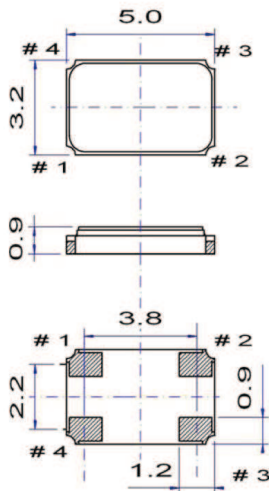
5.0 x 3.2 x 0.9mm

ABM3X



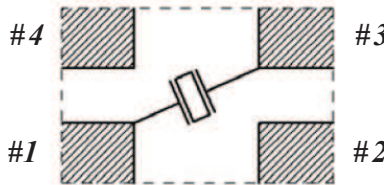
RoHS
Compliant

OUTLINE DIMENSIONS:



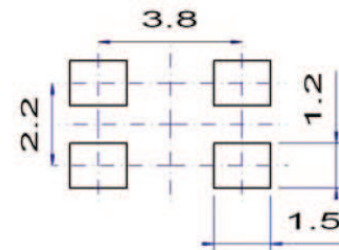
Pin function

- # 1 crystal connection
- # 2 GND
- # 3 crystal connection
- # 4 GND



Do not design any conductive path between the pattern

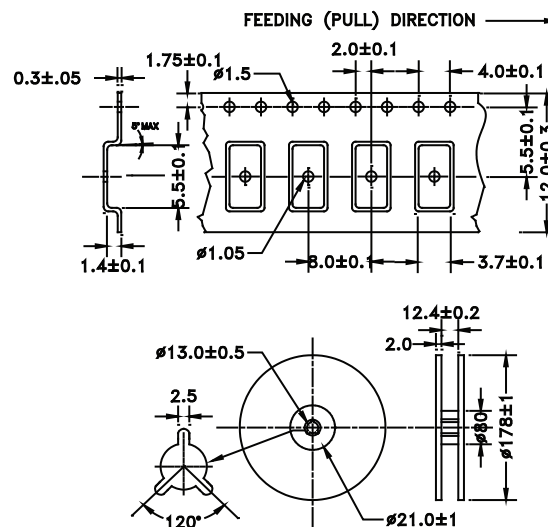
Example for solder pattern



Dimensions: mm

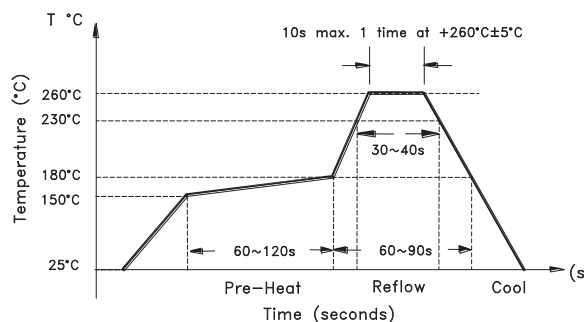
TAPE & REEL:

1000pcs/reel



Dimensions: mm

REFLOW PROFILE:



Need a test socket for the ABM3X Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, [click here](#). P/N **AXS-5032-04-07**

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