

MINIATURE CERAMIC SMD CRYSTAL

ABM3

Pb in glass
(exempt per RoHS 2002/95/EC Annex (5))

RoHS
Compliant



5.0 X 3.2 X 1.30mm

Smaller package alternative for ABM7 series

FEATURES:

- AT-cut fundamental or 3rd OT mode
- Suitable for RoHS reflow profile
- Tight Stability available ± 10
- Ceramic package hermetically glass sealed assures high precision and reliability.

APPLICATIONS:

- Cellular telephones, pagers
- Communication and test equipment
- PCMCIA and wireless applications

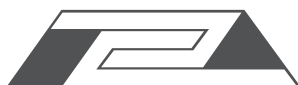
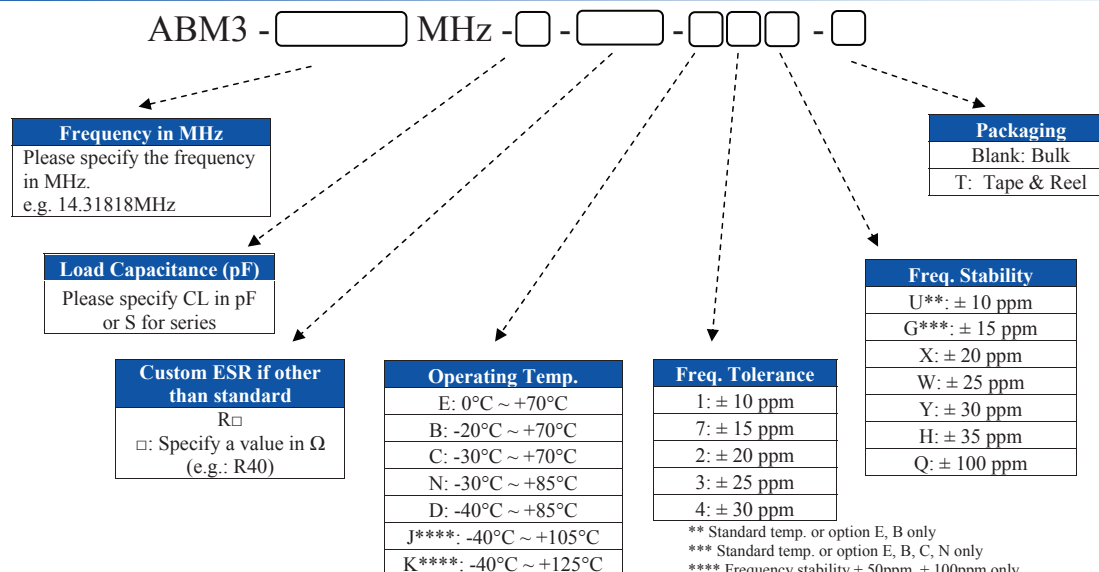
STANDARD SPECIFICATIONS:

| Parameters | Minimum | Typical | Maximum | Units | Notes |
|---|---|---------|---------|------------|--|
| Frequency Range | 8.000 | ----- | 54.000 | MHz | Fundamental |
| | 54.100 | ----- | 80.000 | | 3 rd Overtone |
| Operation Mode | Fundamental or 3 rd Overtone | | | | |
| Operating Temperature | -10 | ----- | +60 | °C | See options |
| Storage Temperature | -40 | ----- | +90 | °C | |
| Frequency Tolerance @+25°C | -50 | ----- | +50 | ppm | See options |
| Frequency Stability over the Operating Temperature (ref. to +25°C) | -50 | ----- | +50 | ppm | See options |
| Equivalent series resistance (R1) | See table 1 below | | | Ω | |
| Shunt capacitance (C0) | ----- | ----- | 7 | pF | |
| Load capacitance (CL) | ----- | 18 | ----- | pF | Standard (See options if other than STD) |
| Drive Level | ----- | 10 | 100 | μ W | |
| Aging | -5 | ----- | +5 | ppm | @25°C \pm 3°C First year |
| Insulation Resistance | 500 | ----- | ----- | M Ω | @ 100Vdc \pm 15V |

Table 1 – Standard ESR

| Frequency (MHz) | ESR(Ω) max. | Operation Mode |
|-----------------|----------------------|--------------------------|
| 8.000 – 8.999 | 500 | Fundamental |
| 9.000 – 9.999 | 200 | Fundamental |
| 10.000 – 15.999 | 60 | Fundamental |
| 16.000 – 54.000 | 50 | Fundamental |
| 54.100 – 80.000 | 60 | 3 rd Overtone |

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)



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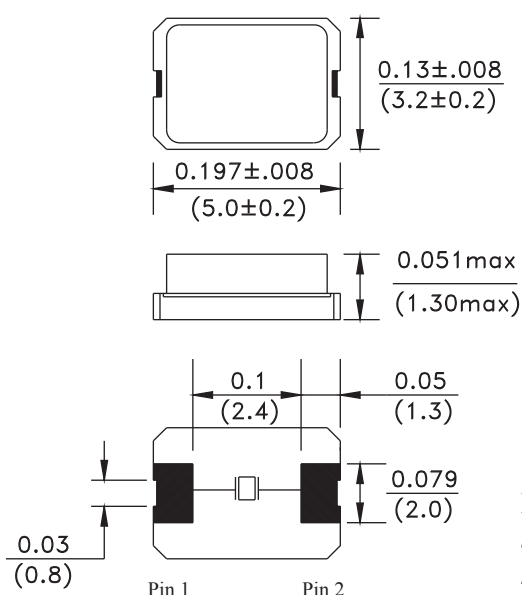
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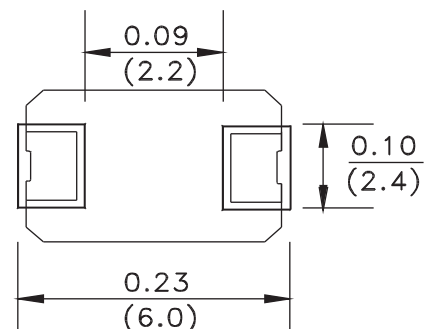
OUTLINE DRAWING:



CONNECTION



Recommended land pattern

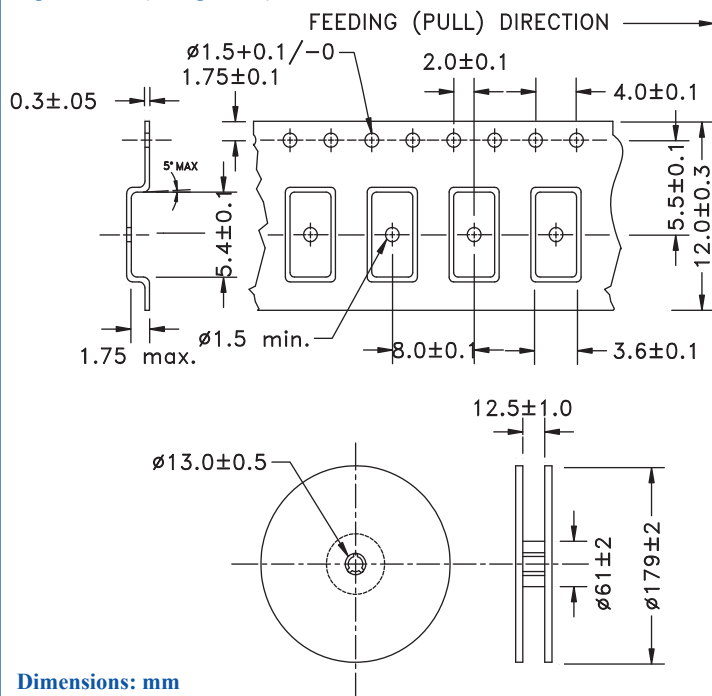


Note: Due to availability of the ceramic base, a chamfer may appear on pin 1.

Dimensions: inch (mm)

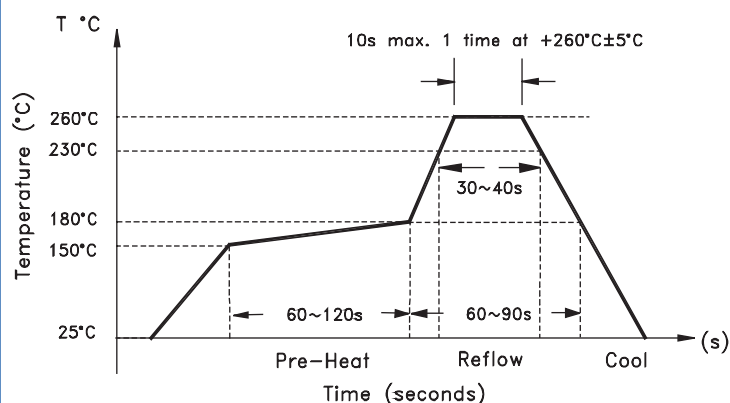
TAPE & REEL:

Tape and reel (1,000pcs/reel)



Dimensions: mm

REFLOW PROFILE



Need a test socket for the ABM3 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here**. P/N: **AXS-5032-02-06**

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