CERAMIC SMD CRYSTAL







5.0 X 3.2 X 1.1mm

ABM3B

ABM3B

FEATURES:

- Fundamental mode.
- · Suitable for reflow.
- Tight Stability available.
- Ceramic package and metal lid assures high precision and reliability.
- · Seam sealing.

> APPLICATIONS:

- Cellular telephones, Pagers.
- Communication and Test equipment.
- High Density applications.
- PCMCIA and wireless applications.

STANDARD SPECIFICATIONS:

| PARAMETERS | | | |
|---|--|--|--|
| ABRACON P/N | ABM3B Series | | |
| Frequency Range | 8.0MHz - 50.0MHz (Fundamental 50.1MHz - 125MHz (3rd overtone) | | |
| Operation Mode | Fundamental or 3rd overtone | | |
| Operating Temperature | - 10°C to + 60°C (see options) | | |
| Storage Temperature | - 40°C to + 85°C | | |
| Frequency Tolerance @ 25°C | ± 50 ppm max. (see options) | | |
| Frequency Stability over the Operating Temperature | 50 mm man (and antique) | | |
| (Ref to + 25°C) | ± 50 ppm max. (see options) | | |
| Equivalent Series Resistance | See table 1 | | |
| Shunt Capacitance C0 | 7 pF max. | | |
| Load Capacitance CL | 18 pF (see options) | | |
| Drive Level | 100 μW max., 10 μW typical | | |
| Aging (First Year) @ 25° C $\pm 3^{\circ}$ C | ± 5ppm max. | | |
| Insulation Resistance | $500 \mathrm{M}\Omega$ min at $100 \mathrm{Vdc} \pm 15 \mathrm{V}$ | | |

TABLE 1- Standard ESR

| Frequency (MHz) | $\mathbf{ESR}(\Omega)$ max | Frequency (MHz) | ESR(Ω max) |
|-------------------------|----------------------------|---------------------------|--------------------|
| 8.000 - 9.999 (Fund.) | 200 | 16.000 - 50.000 (Fund.) | 50 |
| 10.000 -11.999 (Fund.) | 100 | 50.001 - 80.000 (3rd OT) | 60 |
| 12.000 - 15.999 (Fund.) | 70 | 80.001 - 125.000 (3rd OT) | 80 |



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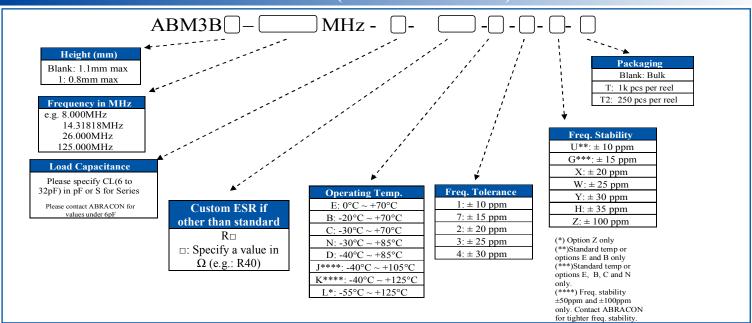


5.0 X 3.2 X 1.1mm

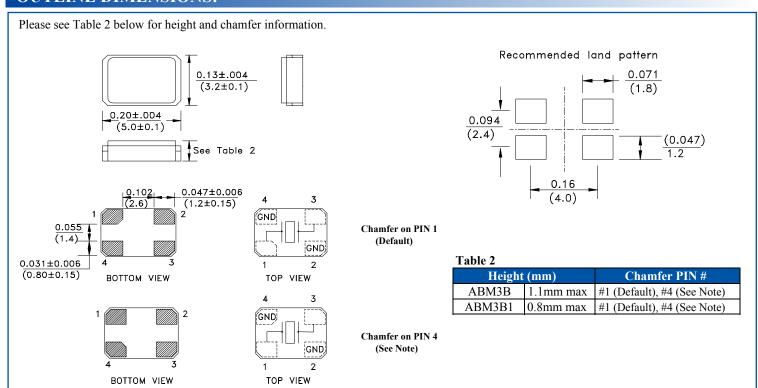
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Compliant

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)



OUTLINE DIMENSIONS:



Note: Due to the availability of raw materials, this part may be manufactured with the chamfer on pin 4. Be advised that this does not affect the electrical characteristics of the crystal in any way.





Dimension: Inches (mm)

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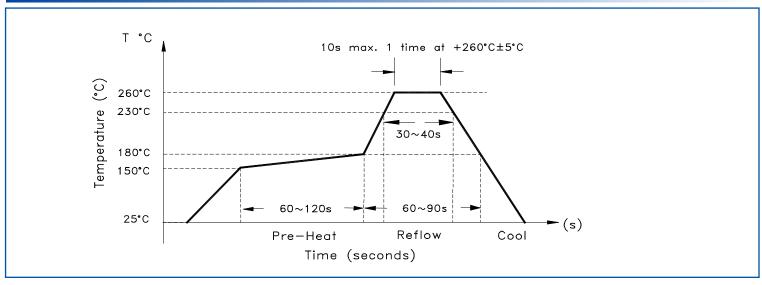




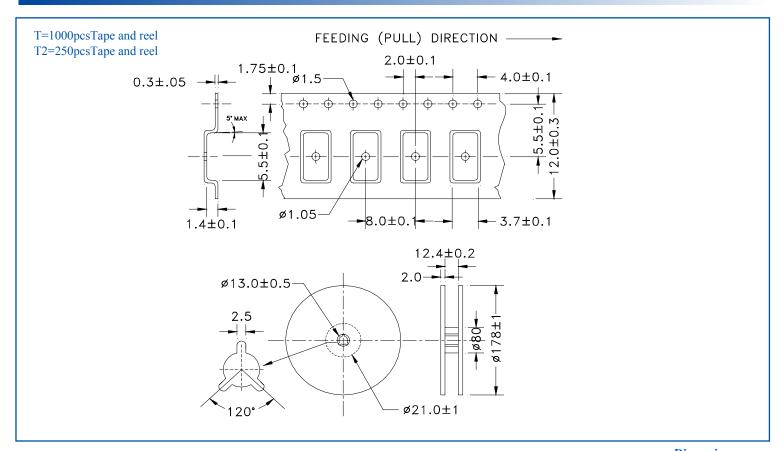
5.0 X 3.2 X 1.1mm

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REFLOW PROFILE:



TAPE & REEL:



Dimension: mm

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