



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ULTRA MINIATURE CERAMIC SMD CRYSTAL



ABM8

3.2 x 2.5 x 0.8mm

ABM8

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



**RoHS
Compliant**

FEATURES:

- Low in height; suitable for thin equipment, 0.8mm max
- Seam sealed package assures high reliability
- Tight tolerance and stability available
- Suitable for RoHS reflow
- Available for fundamental and 3rd over tone mode

APPLICATIONS:

- High density applications
- Modems, communication and test equipment
- PCMCIA, Wireless applications

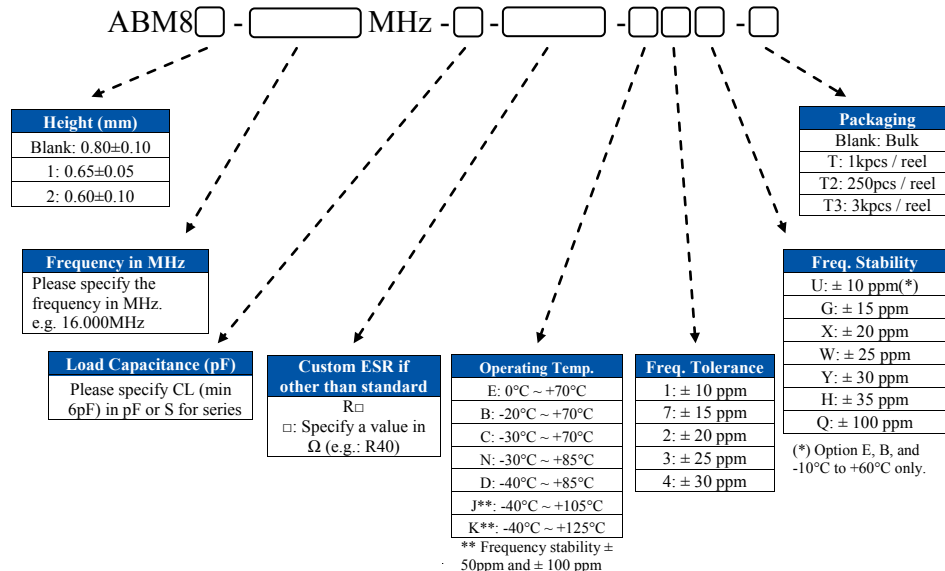
STANDARD SPECIFICATIONS:

| Parameters | Minimum | Typical | Maximum | Units | Notes |
|---|--|---------|----------|-------|--|
| Frequency Range | 10.000 | ----- | 125.000* | MHz | Contact Abracon for available F<11MHz |
| Operation Mode | Fundamental | | | ----- | 10MHz - 54MHz |
| | 3rd Overtone (Standard Frequencies: 64, 66, 66.6666, 75, 80, 98.304, 100, 125MHz) | | | ----- | 64.000 MHz - 125.000 MHz Please contact Abracon for available frequencies |
| Operating Temperature | -10 | ----- | +60 | °C | See options |
| Storage Temperature | -55 | ----- | +125 | °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) | ----- | ----- | 7.0 | pF | |
| Load capacitance (CL) | ----- | 18.0 | ----- | pF | Standard (See options if other than STD) |
| Drive Level | ----- | 10 | 100 | μW | |
| Aging | -3 | ----- | +3 | ppm | @25°C±3°C First year |
| Insulation Resistance | 500 | ----- | ----- | MΩ | @ 100Vdc ± 15V |

TABLE 1- Standard ESR

| Frequency (MHz) | ESR(Ω) max | Frequency (MHz) | ESR(Ω) max |
|------------------------|------------|---------------------------|------------|
| 10.000 -11.999 (Fund) | 200 | 30.000 - 39.999 (Fund) | 40 |
| 12.000 -15.999 (Fund) | 120 | 40.000 - 54.000 (Fund) | 35 |
| 16.000 -19.999 (Fund) | 70 | 66.000 - 80.000 (3rd OT) | 120 |
| 20.000 - 29.999 (Fund) | 50 | 98.304 - 125.000 (3rd OT) | 80 |

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)



ABRACON IS
ISO9001:2008
CERTIFIED



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OUTLINE DRAWING:

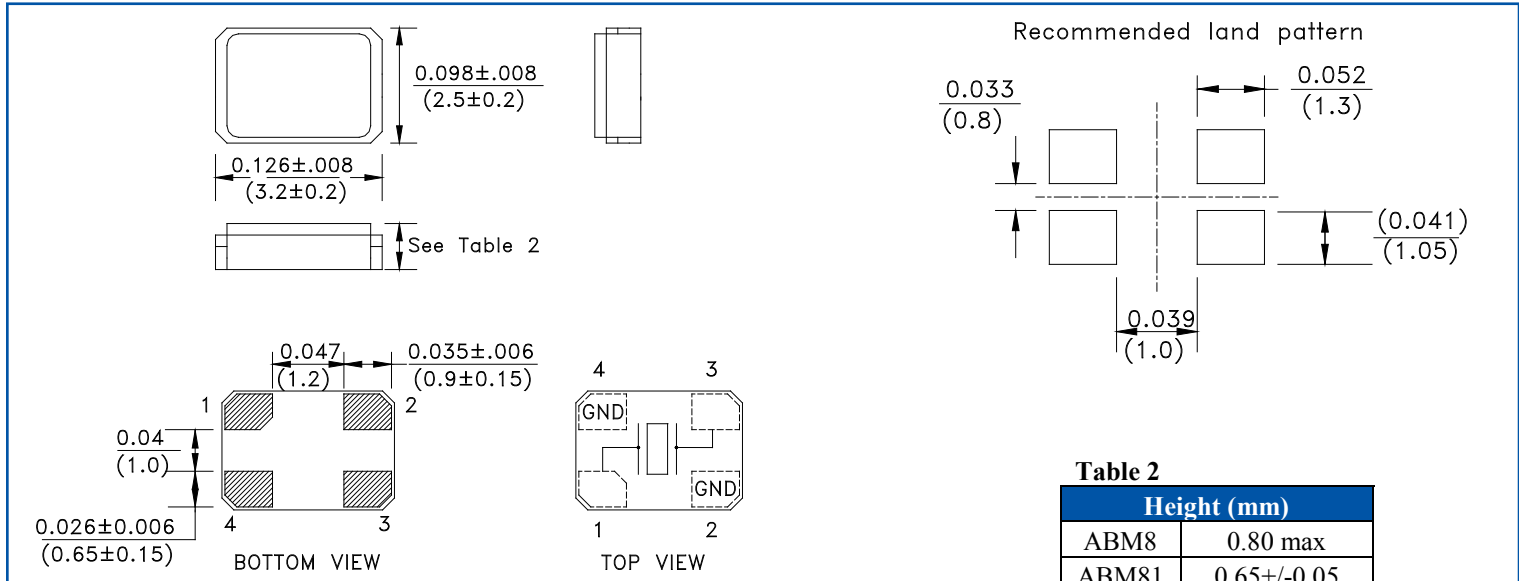


Table 2

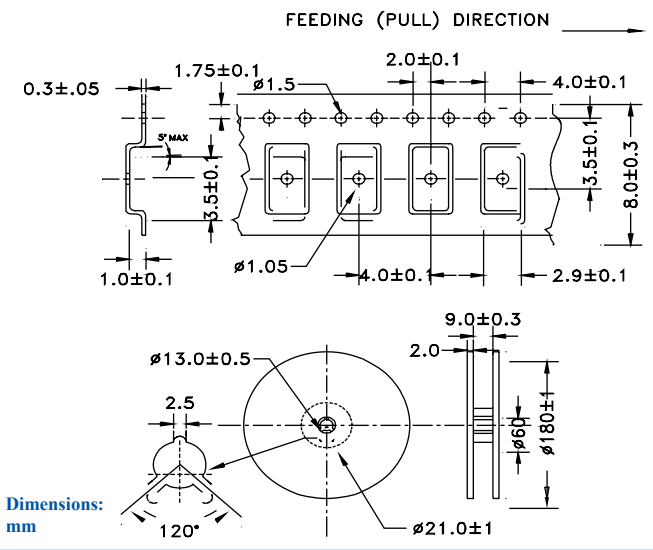
| Height (mm) | |
|-------------|-------------|
| ABM8 | 0.80 max |
| ABM81 | 0.65+/-0.05 |
| ABM82 | 0.60+/-0.10 |

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.

Dimensions: inch (mm)

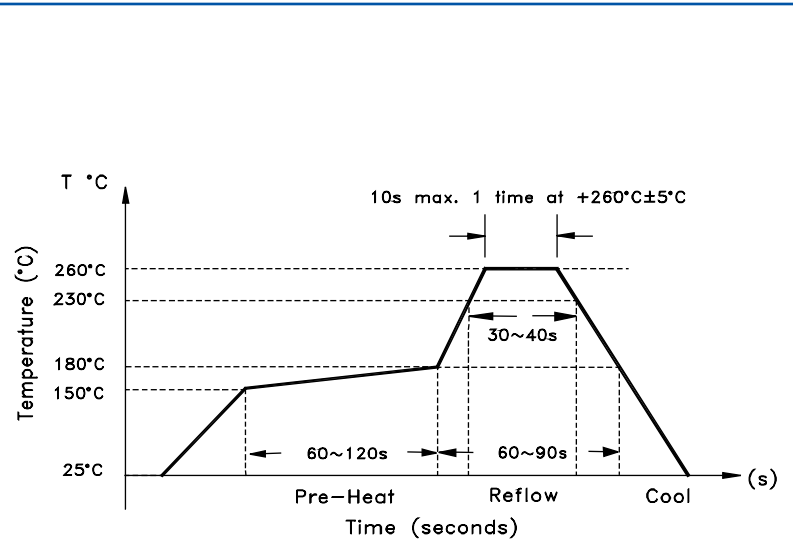
TAPE & REEL:

- Option "-T" : Tape and reel (1,000pcs/reel) : ABM8, ABM82
Tape and reel (3,000pcs/reel) : ABM81
- Option "-T2" : Tape and reel (250pcspcs/reel) : ABM8
- Option "-T3" : Tape and reel (3,000pcs/reel) : ABM8, ABM82 only



Dimensions: mm

REFLOW PROFILE:



Need a test socket for the ABM8 Series? To view compatible PRECISION TEST & BURN-IN SOCKETS for these parts, [click here](#).

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.



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