

ULTRA MINIATURE CERAMIC SMD CRYSTAL



ABM8

3.2 x 2.5 x 0.7mm

ABM8



FEATURES:

- Low in height; suitable for thin equipment, 0.7mm 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

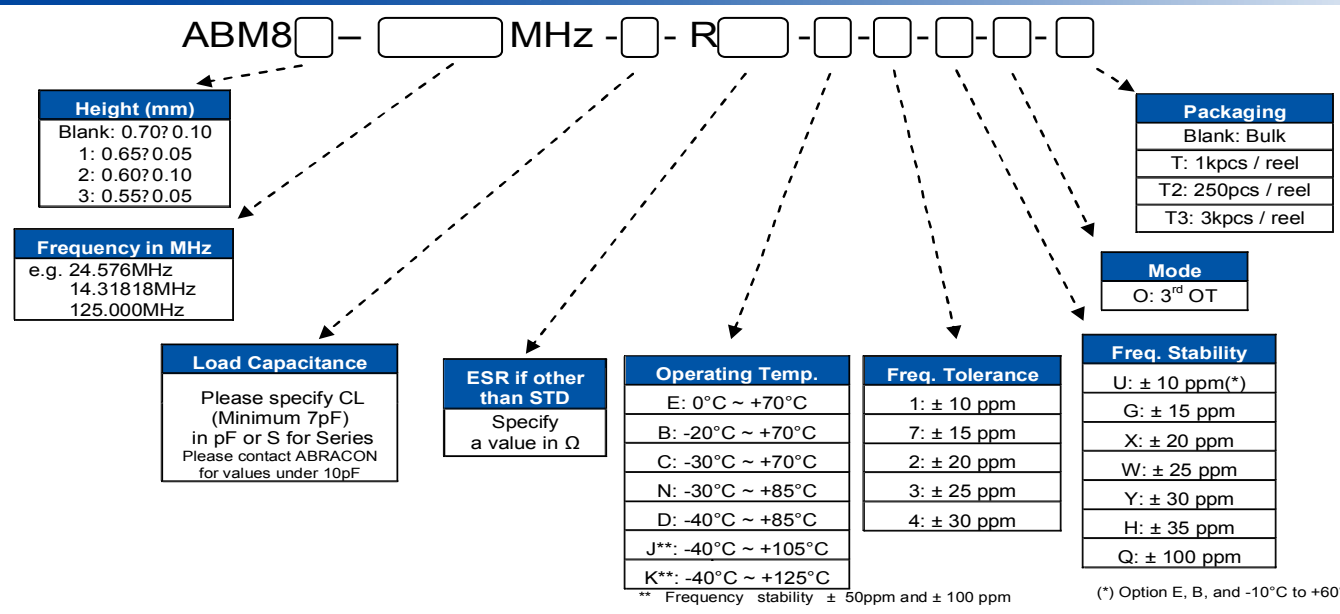
STANDARD SPECIFICATIONS:

| PARAMETERS | |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ABRACON P/N | ABM8 Series |
| Frequency Range | 10.000MHz - 54.000MHz (Fundamental) (Please contact Abracon for F>54MHz) 114.285MHz (3rd OT, see options) (Please contact ABRACON for other 3rd OT frequencies.) |
| Operation Mode | Fundamental or 3rd OT (see options) |
| Operating Temperature | -10°C to + 60°C (see options) |
| Storage Temperature | - 55°C to + 125°C |
| Frequency Tolerance at +25°C | ± 50 ppm max. (see options) |
| Frequency Stability over the Operating Temp. (Ref to +25°C) | ± 50 ppm max. (see options) |
| Equivalent Series Resistance | See Table 1 |
| Shunt Capacitance C ₀ | 7pF max. |
| Load Capacitance C _L | 18pF (see options) |
| Drive Level | 100µW max., 10µW Typical |
| Aging at 25°C First Year | ±3ppm max |
| Insulation Resistance | 500MΩ min. @ 100Vdc ± 15V |

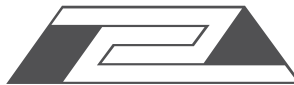
TABLE 1- Standard ESR

| Frequency (MHz) | ESR(Ω) Max | Frequency (MHz) | ESR(Ω) Max |
|------------------------|------------|---------------------------|------------|
| 11.000 -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)



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ABRACON CORPORATION

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➤ **OUTLINE DRAWING:** Please see Table 2 below for height and chamfer information

Recommended land pattern

Dimensions: inch (mm)

TABLE 2

| | Height (mm) | Chamfer PIN # |
|-------|-------------|-----------------------------|
| ABM8 | 0.70+/-0.10 | #4 (Default), #1 (See Note) |
| ABM81 | 0.65+/-0.05 | #1 only |
| ABM82 | 0.60+/-0.10 | #4 (Default), #1 (See Note) |
| ABM83 | 0.55+/-0.05 | #1 only |

Note: Due to the availability of raw materials, this part may be manufactured with the chamfer on pin 1. Be advised that this does not affect the electrical characteristics of the crystal in any way.

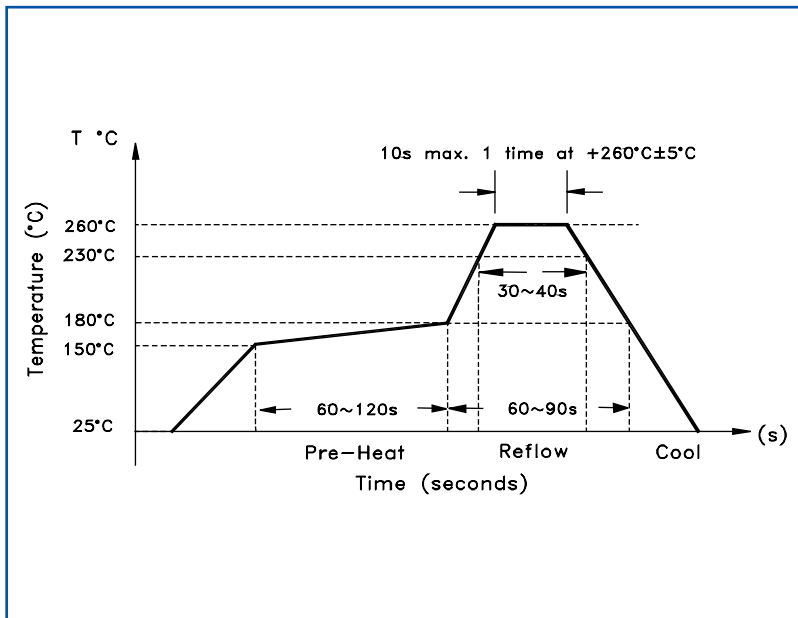
➤ **TAPE & REEL:**

Tape and reel (1,000pcs/reel) : ABM8, ABM82
Tape and reel (3,000pcs/reel) : ABM81, ABM83

FEEDING (PULL) DIRECTION →

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](#).

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