

# ULTRA MINIATURE CERAMIC SMD CRYSTAL



ABM8

3.2 x 2.5 x 0.7mm

ABM8



## FEATURES:

- Low in height; suitable for thin equipment.
- Ceramic package and metal lid assures high reliability.
- Tight tolerance and stability available.
- Suitable for solder reflow.
- Fundamental and 3rd over tone mode available..

## APPLICATIONS:

- High density applications.
- Modems, communication and test equipment.
- PMCIA, Wireless applications.

## STANDARD SPECIFICATIONS:

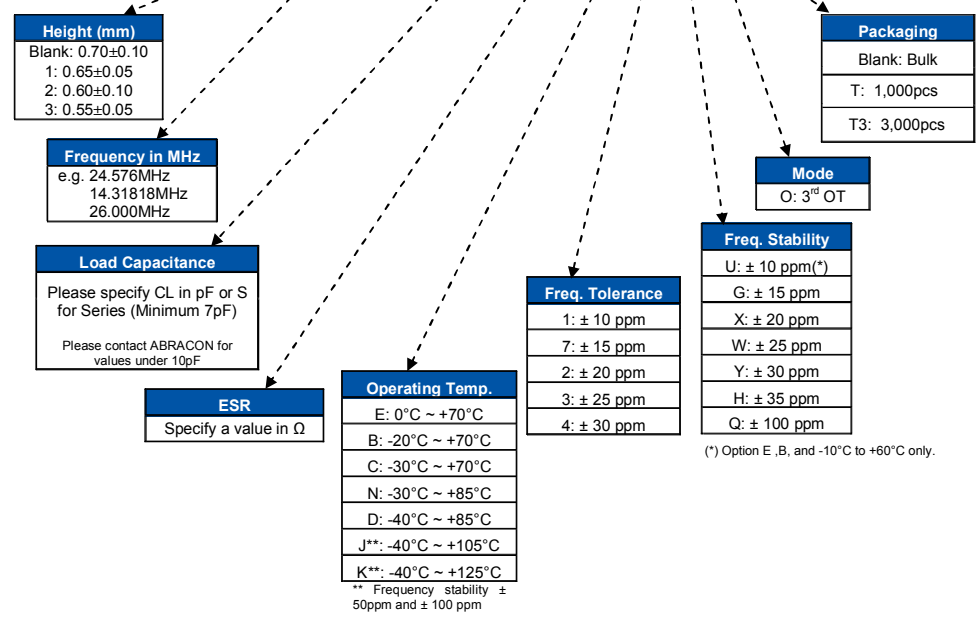
PARAMETERS	
ABRACON P/N	ABM8 Series
Frequency Range	10.000MHz - 54.000MHz (Fundamental) (Please contact Abracon for F>54MHz) 114.285MHz (3rd OT, see options) (Please contact ABRACON for other 3rd OT frequencies.)
Operation Mode	Fundamental or 3rd OT (see options)
Operating Temperature	-10°C to +60°C (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 <sub>0</sub>	7pF max.
Load Capacitance C <sub>L</sub>	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	Operation mode
10.000 -11.999	200	Fundamental
12.000 -15.999	120	Fundamental
16.000 -19.999	70	Fundamental
20.000 - 29.999	50	Fundamental
30.000 - 54.000	35	Fundamental
114.285	80	3rd OT

## OPTIONS AND PART IDENTIFICATION

(Left blank if standard) ABM8 [ ] - [ ] MHz - [ ] - R [ ] - [ ] - [ ] - [ ] - [ ]



ABRACON IS ISO9001:2008 CERTIFIED



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

**Chamfer on PIN 4 (Default)**

**Chamfer on PIN 1 (See Note)**

Recommended land pattern

Dimensions: inch (mm)

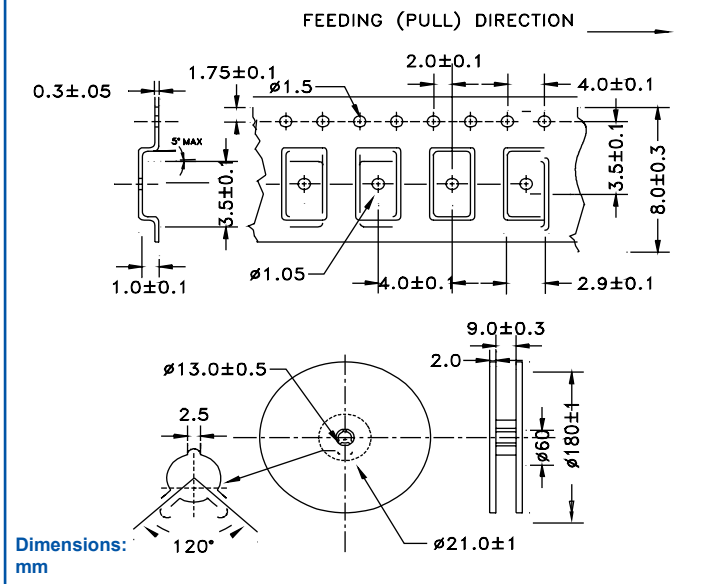
**TABLE 2**

	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

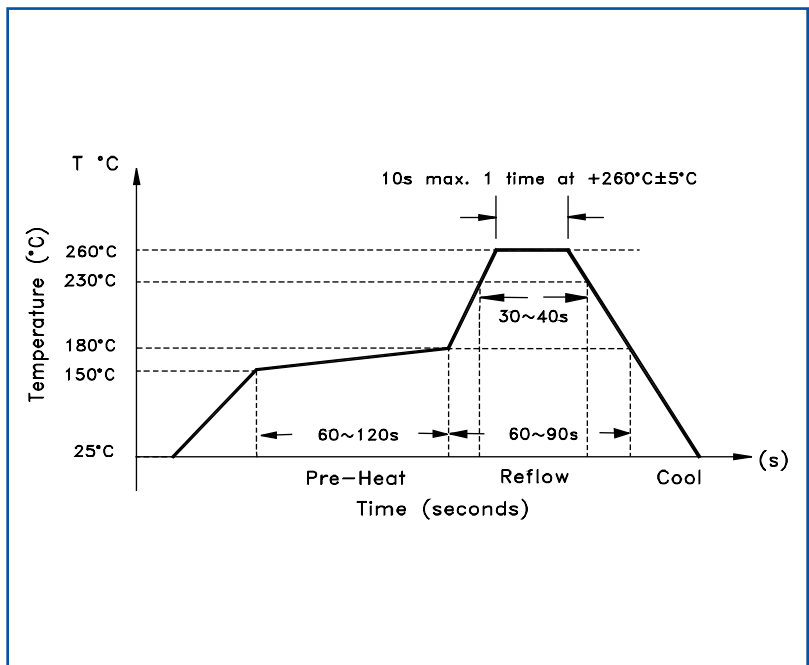
**Note:** Due to the availability of raw materials, this part may be manufactured with the chamfer on pin 1. Be advised that this does not affect the electrical characteristics of the crystal in any way.

➤ **TAPE & REEL:**

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



➤ **REFLOW PROFILE:**



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

**NOTE:** Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

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