

CERAMIC SMD CRYSTAL



ABM3B

5.0 X 3.2 X 1.1mm

ABM3B



RoHS
Compliant

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:

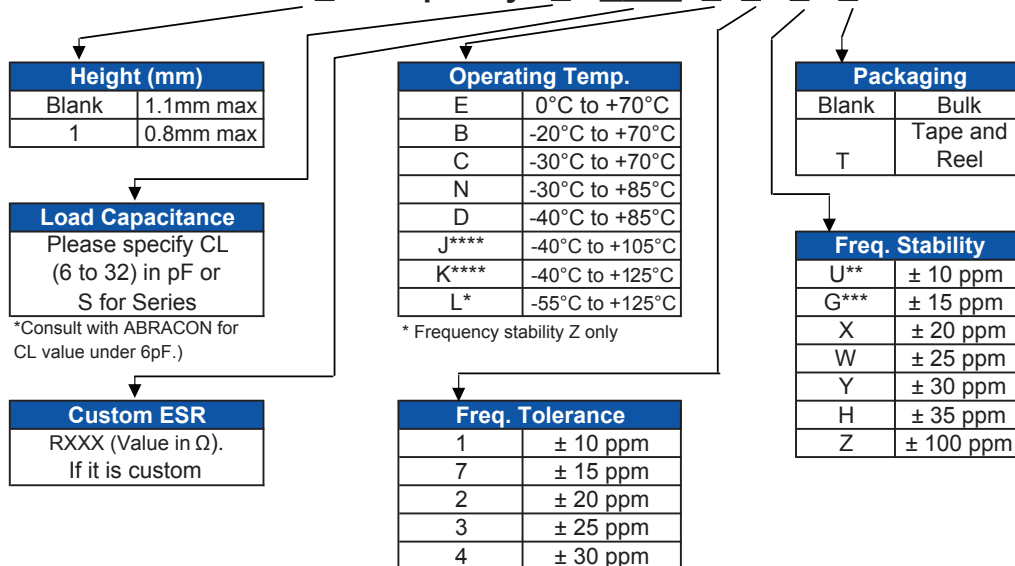
PARAMETERS	
ABRACON P/N	ABM3B Series
Frequency Range	8.0 MHz - 50.0 MHz (Fundamental) 50.1 MHz - 125 MHz (3rd overtone)
Operation Mode	Fundamental or 3rd overtone
Operating Temperature	-10°C to +60°C (see options)
Storage Temperature	-40°C to +85°C
Frequency Tolerance @ +25°C	± 50 ppm max. (see options)
Frequency Stability over the Operating Temperature (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 ± 3°C	± 5ppm max.
Insulation Resistance	500 MΩ min at 100Vdc ± 15 V

TABLE 1- Standard ESR

Frequency (MHz)	ESR(Ω) max	Operational mode
8.000 - 9.999	200	Fundamental
10.000 -11.999	100	Fundamental
12.000 - 15.999	70	Fundamental
16.000 - 50.000	50	Fundamental
50.001 - 80.000	60	3rd Overtone
80.001 - 125.000	60	3rd Overtone

OPTIONS AND PART IDENTIFICATION:

ABM3B□ - Frequency - □ - R□□□ - □ - □ - □ - □



** Standard temp or options E and B only
*** Standard temp or options E, B, C and N only.
**** Freq. stability ±50ppm and ±100ppm only.
Contact ABRACON for tighter freq. stability.

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

Recommended land pattern

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.

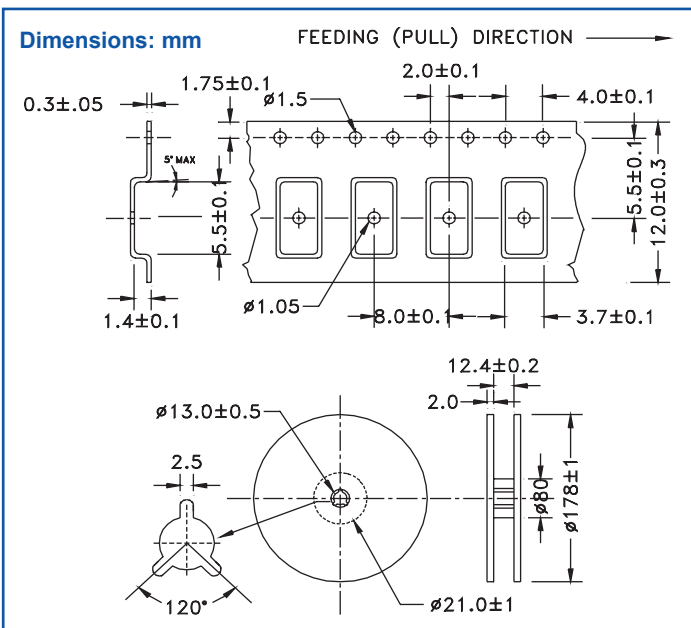
Table 2

	Height (mm)	Chamfer PIN #
ABM3B	1.1mm max	#1 (Default), #4 (See Note)
ABM3B1	0.8mm max	#1 (Default), #4 (See Note)

Dimensions: inch (mm)

▶ **TAPE & REEL:** Tape and reel (1,000pcs/reel)

▶ **REFLOW PROFILE:**



Need a test socket for the ABM3B 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.

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



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30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com