

CERAMIC SMD MICROPROCESSOR CRYSTAL

ABM2

Pb in Glass
(exempt per RoHS 2002/95/EC Annex (5))

RoHS
Compliant



8.0 x 4.5 x 1.4mm

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

FEATURES:

- Low in height; suitable for thin equipment
- Glass sealed package assures high reliability and high temperature operation
- Tight tolerance and stability available
- Suitable for RoHS compliant reflow
- Low cost glass sealed crystal solution

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	8.000	-----	100.000		Fundamental
Operation mode	8.000	-----	40.000	MHz	Fundamental AT-cut (Standard)
	40.001	-----	100.000		3 rd OT AT-cut (Standard)
	40.001	-----	60.000		Fundamental AT-cut (See options)
Operating Temperature	-10	-----	+60	°C	See options
Storage Temperature	-40	-----	+85	°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)	-----	-----	100	Ω	8.000 – 10.000999MHz (Fundamental)
	-----	-----	60		10.001 – 15.999999MHz (Fundamental)
	-----	-----	50		16.000 – 60.000999MHz (Fundamental)
	-----	-----	70		40.000 – 100.000999MHz (3 rd OT)
Shunt capacitance (C0)	-----	-----	7	pF	-----
Load capacitance (CL)	-----	18	-----	pF	See options
Drive Level	-----	10	100	μW	
Aging @ 25°C±3°C	-----	-----	±5	ppm	First year
Insulation Resistance	500	-----	-----	MΩ	@ 100Vdc

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)

ABM2- [] MHz - [] - [] - [] - [] - []

Frequency in MHz
e.g. 8.000MHz
14.31818MHz
26.000MHz

Packaging
Blank: Bulk
T: 1k reel
T2: 250pcs/reel

Load Capacitance (pF)
Please specify CL in pF (8 to 33pF) or S for series
Please contact ABRACON for other values

Mode
F: Fund AT for >40MHz

Custom ESR if other than standard
R□
□: Specify a value in Ω (e.g.: R40)

Operating Temp.
E: 0°C ~ +70°C
B: -20°C ~ +70°C
C: -30°C ~ +70°C
N: -30°C ~ +85°C
D: -40°C ~ +85°C
J (Note #5): -40°C ~ +105°C
K (Note #5): -40°C ~ +125°C
L (Note #6): -55°C ~ +125°C

Freq. Tolerance
1: ± 10 ppm
7: ± 15 ppm
2: ± 20 ppm
3: ± 25 ppm
4: ± 30 ppm

Freq. Stability
U: ±10 ppm (Note #1)
G: ±15 ppm (Note #1)
X: ±20 ppm (Note #2)
W: ±25 ppm (Note #2)
Y: ±30 ppm (Note #3)
H: ±35 ppm (Note #3)
A: ±100 ppm (Note #4)
V: ±120 ppm
P: ±150 ppm

Note:
1: -10°C to 60°C only.
2: -20°C to 70°C, -10°C to 60°C, E only.
3: -30°C to 80°C, -10°C to 60°C, C, B, E only
4: -40°C to 90°C, -10°C to 60°C, D, N, C, B, E only
5: A, V, or P only
6: Contact Abracon for availability

ABRACON IS
ISO9001:2008
CERTIFIED



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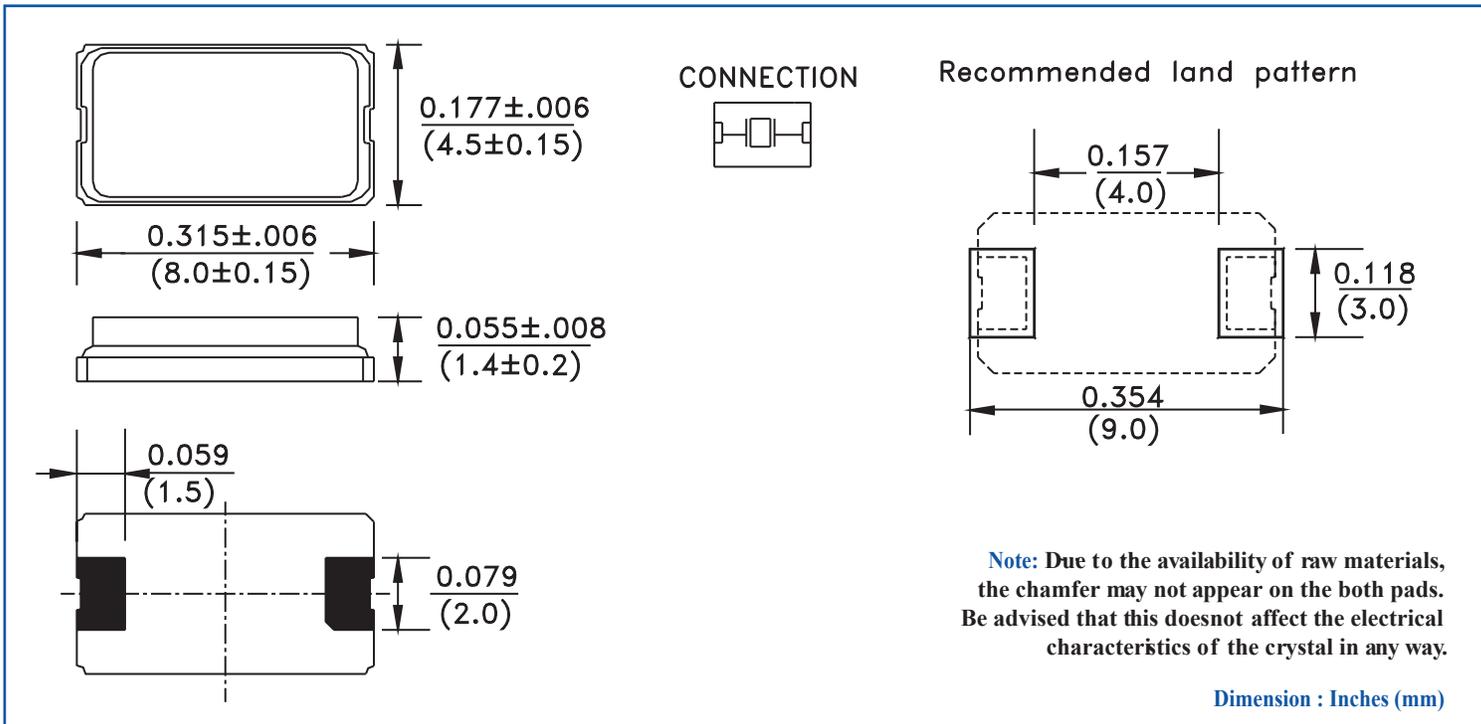
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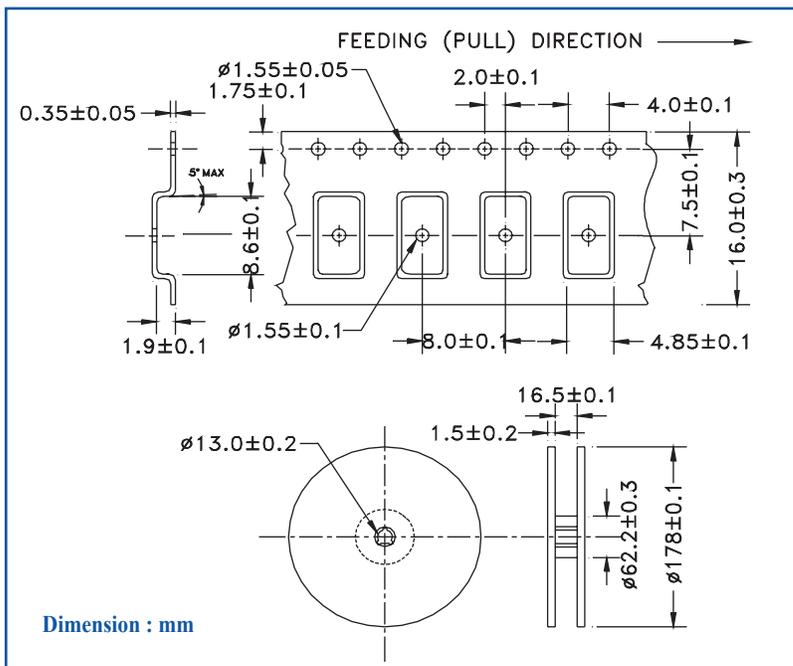


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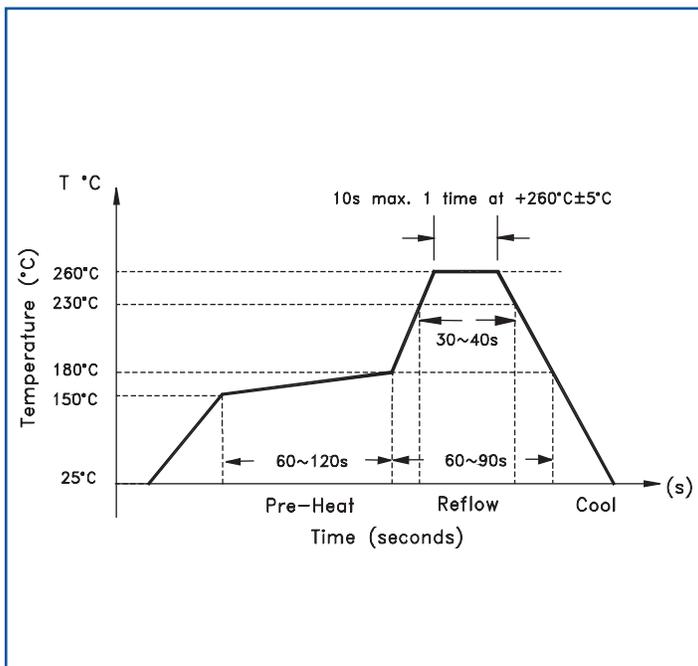
OUTLINE DRAWING:



TAPE & REEL: Tape and reel 1,000pcs/reel



REFLOW PROFILE



Need a test socket for the ABM2 Series? To view compatible PRECISION TEST & BURN-IN SOCKETS for these parts, [click here](#).

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