CERAMIC SMD MICRO MINIATURE MICROPROCESSOR CRYSTAL

6.0 x 3.5 x 1.4mm

ABM7

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

RoHS/RoHS II Compliant

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

FEATURES:

- Low in height (1.4 mm max.)
- Ceramic package assures high reliability
- Small size SMD, suitable for high density applications
- Superior heat-resistant glass sealing
- Wide operating temperature available

APPLICATIONS:

- Computers, Modems, Communication equipment
- Thin equipment
- Industrial wide temperature applications

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range(*)	8.000		39.999999	MHz	Fundamental AT-cut (Standard)
	40.000		80.000		3rd OT AT-cut (Standard)
	40.000		50.000		Fundamental AT-cut (See options)
Operating Temperature	-10		+60	ºC	See options
Storage Temperature	-40		+90	ºC	
Frequency Tolerance @+25ºC	-50		+50	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25ºC)	-50		+50	ppm	See options
Equivalent series resistance	See table 1 below			Ω	
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)		18		pF	See options
Drive Level		10	100	µW	
Aging@25ºC±3ºC			±5	ppm	First year
Insulation Resistance	500			MΩ	@ 100Vdc

(*) Frequency above 40MHz based on availability. Please contact ABRACON

Table 1

Frequency (MHz)	ESR(Ω) max.	Operation Mode
8.000 – 9.999	100	Fundamental
10.000 – 11.999	80	Fundamental
12.000 – 15.999	60	Fundamental
16.000 – 50.000	50	Fundamental
40.000 – 80.000	70	3rd Overtone

2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 08.06.15**
Ph. 949.546.8000 | Fax. 949.546.8001
Visit www.abracon.com for Terms and Conditions of Sale

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OPTIONS AND PART IDENTIFICATION: (left blank if standard)

ABM7- [ ] MHz - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

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

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

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(***): -40°C ~ +105°C
K(***): -40°C ~ +125°C
L(***):-55°C to +125°C

(***) ±100 ppm only
Please check with Abracon for availability for non-standard frequencies with these operating temperature options.

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

Freq. Stability
U: ± 10 ppm(*)
G: ± 15 ppm(**)
X: ± 20 ppm
W: ± 25 ppm
Y: ± 30 ppm
H: ± 35 ppm
Q: ± 100 ppm

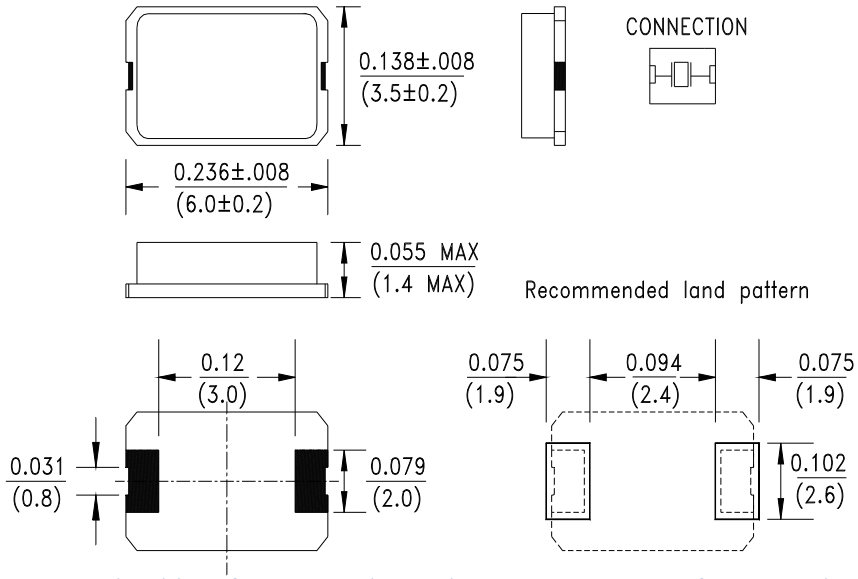
(*) -10°C to 60°C only.
(**) Contact ABRACON for availability for -40°C to +85°C

Mode
F: Fund AT for >40MHz

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

OUTLINE DIMENSION:

Dimensions: inches (mm)



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.

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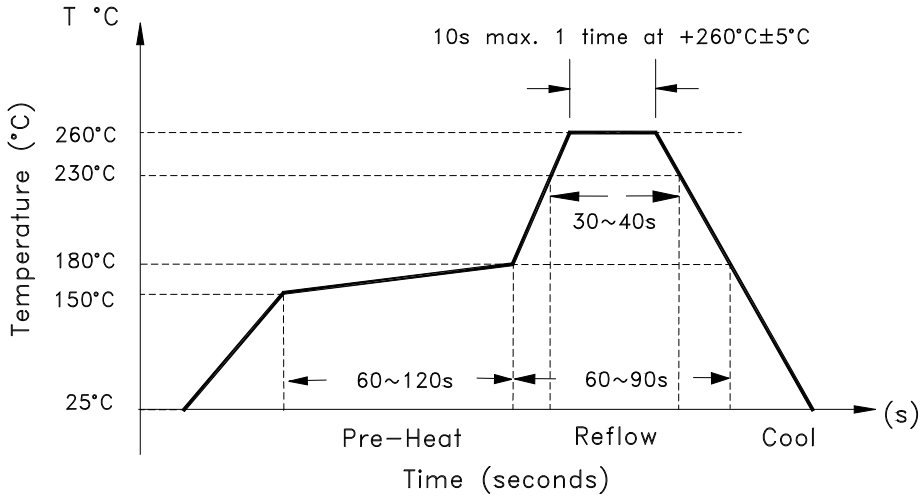
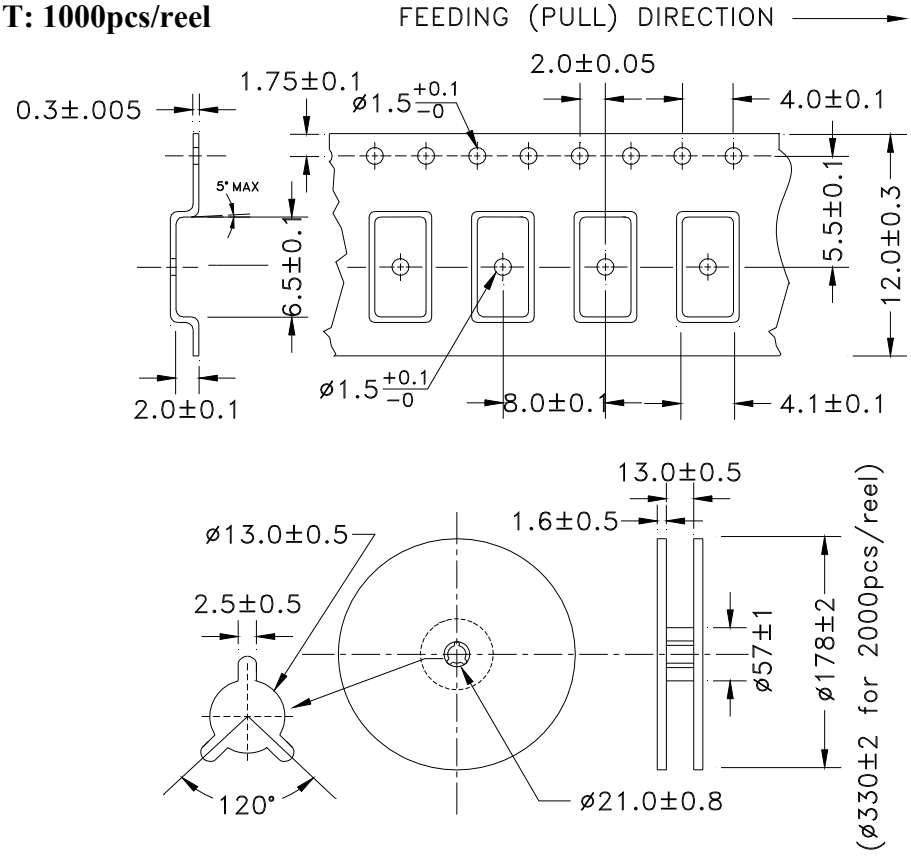
REFLOW PROFILE:



TAPE & REEL:

Packaging: **T: 1000pcs/reel**



Dimensions: mm

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