

CERAMIC SMD MICRO MINIATURE MICROPROCESSOR CRYSTAL

ABM7

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

RoHS
Compliant



6.0 x 3.5 x 1.4mm

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:

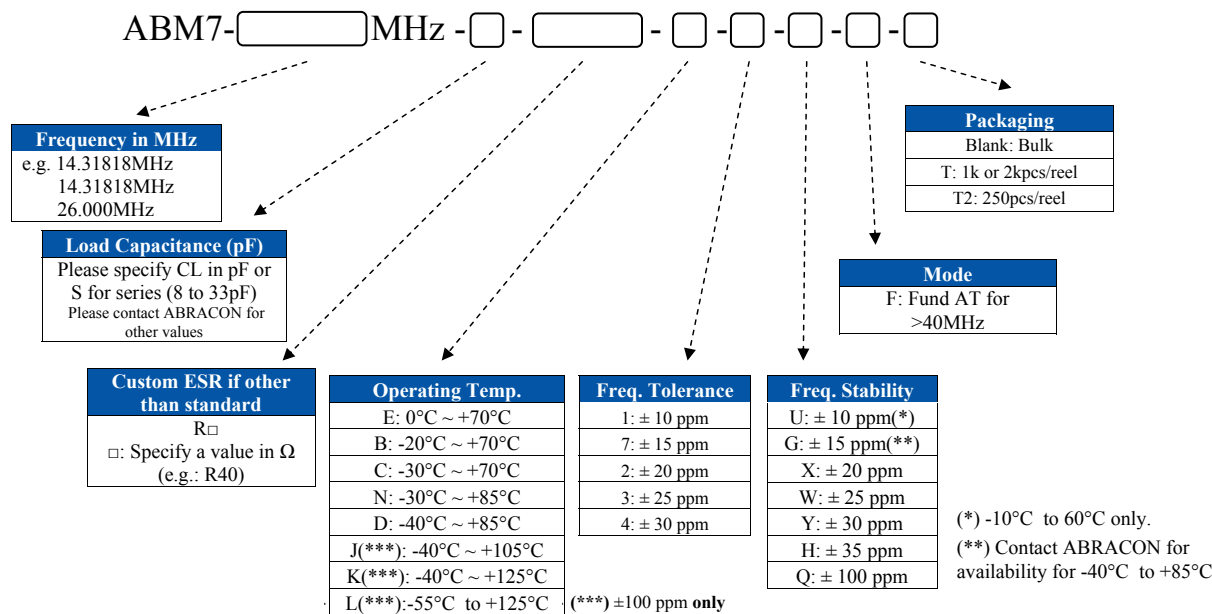
Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	8.000	-----	50.000 (*)	MHz	Fundamental
Operation mode	8.000	-----	39.999999		Fundamental AT-cut (Standard)
	40.000	-----	80.000		3 rd OT AT-cut (Standard)
	40.000	-----	50.000		Fundamental AT-cut (See options)
Operating Temperature	-10	-----	+60	°C	See options
Storage Temperature	-40	-----	+90	°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	See table 1 below			Ω	-----
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

(*) 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 – 15.999	60	Fundamental
16.000 – 50.000	50	Fundamental
40.000 – 80.000	70	3 rd Overtone

OPTIONS AND PART IDENTIFICATION: (left blank if standard)



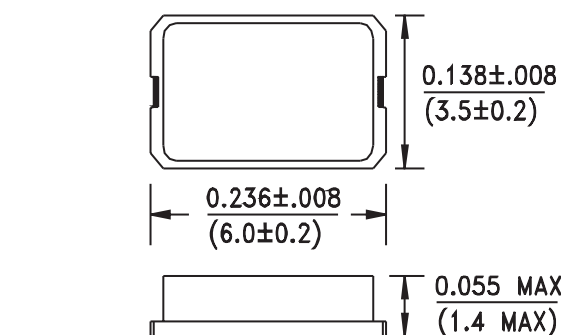
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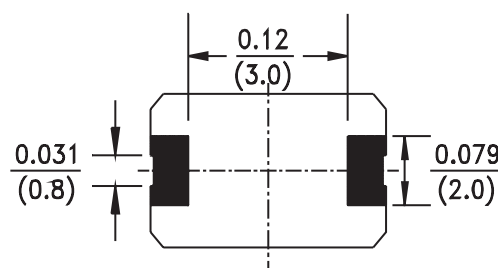
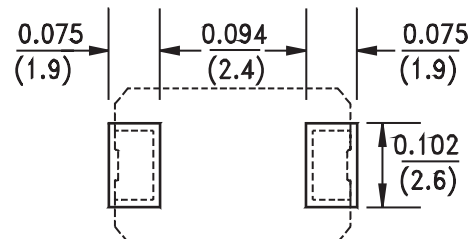
OUTLINE DRAWING:



CONNECTION

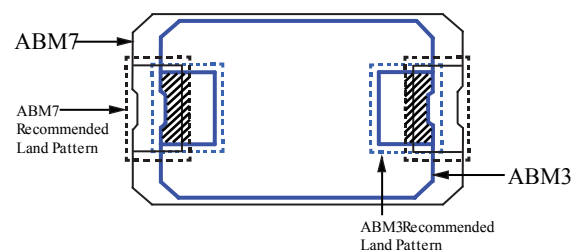


Recommended land pattern



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.

Land pattern compatibility between ABM3 and ABM7

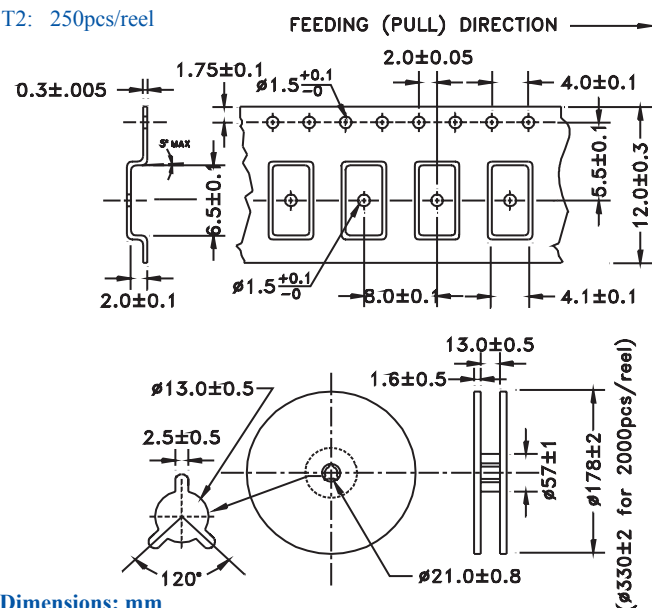


Dimensions: inch (mm)

TAPE & REEL:

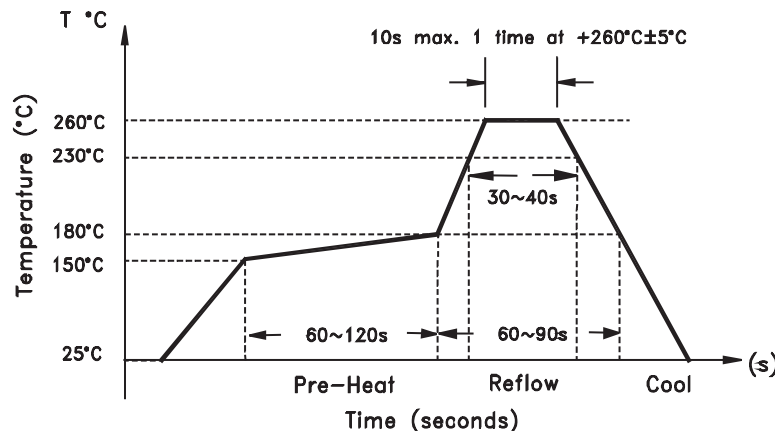
T: 1000pcs/reel or 2000pcs/reel

T2: 250pcs/reel



Dimensions: mm

REFLOW PROFILE:



ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

ABRACON IS
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