

CERAMIC SMD MICRO MINIATURE MICROPROCESSOR CRYSTAL

ABM7Pb 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:

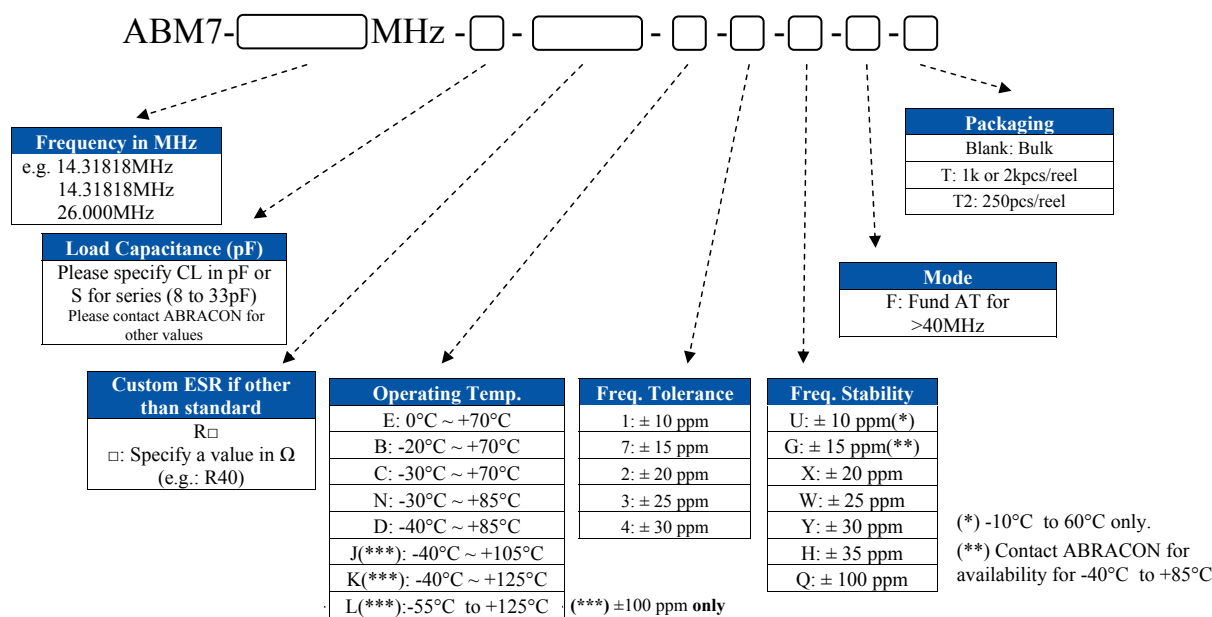
Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	8.000	-----	50.000 (*)	MHz	Fundamental
Operation mode	8.000	-----	39.999999		Fundamental AT-cut (Standard)
	40.000	-----	80.000		3 rd OT AT-cut (Standard)
	40.000	-----	50.000		Fundamental AT-cut (See options)
Operating Temperature	-10	-----	+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

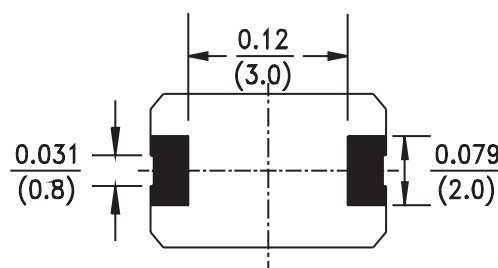
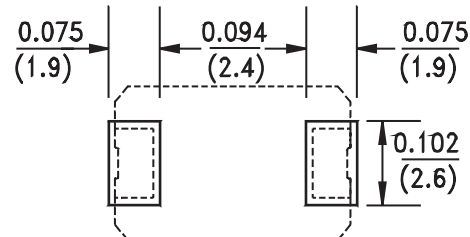
Frequency (MHz)	ESR(Ω) max.	Operation Mode
8.000 – 9.999	100	Fundamental
10.000 – 15.999	60	Fundamental
16.000 – 50.000	50	Fundamental
40.000 – 80.000	70	3 rd Overtone

OPTIONS AND PART IDENTIFICATION: (left blank if standard)



6.0 x 3.5 x 1.4mm

OUTLINE DRAWING:



The diagram shows a rectangular land pattern with a thick blue border. Inside, there are two smaller rectangular areas, each with a dashed blue border and a diagonal hatching pattern. An arrow labeled 'ABM7' points to the left hatched area. Another arrow labeled 'ABM7 Recommended Land Pattern' points to the dashed blue border of the left hatched area. A third arrow labeled 'ABM3' points to the right hatched area. A fourth arrow labeled 'ABM3 Recommended Land Pattern' points to the dashed blue border of the right hatched area.

Dimensions: inch (mm)

TAPE & REEL:

0.3±0.005

1.75±0.1

2.0±0.05

4.0±0.1

1.5^{+0.1}₋₀

5° MAX

6.5±0.1

5.5±0.1

12.0±0.3

2.0±0.1

1.5±0.1

8.0±0.1

4.1±0.1

13.0±0.5

1.6±0.5

2.5±0.5

120°

178±2

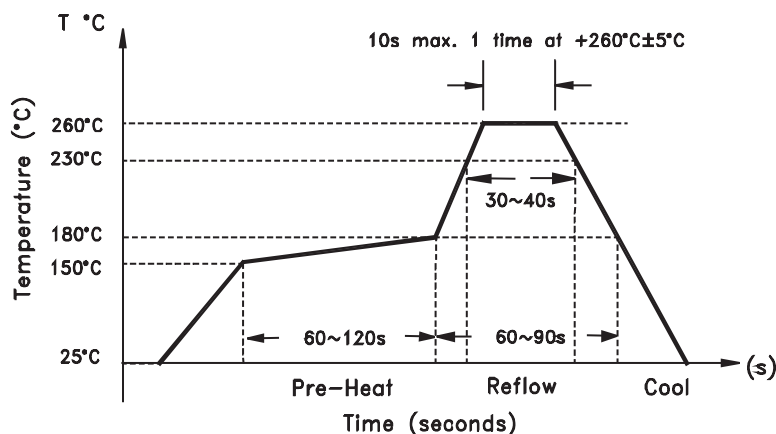
57±1

21.0±0.8

330±2 for 2000pcs/reel

Dimensions: mm

REFLOW PROFILE:



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 12.13.10**
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com