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ULTRA MINIATURE CERAMIC SMD CRYSTAL

ABM8

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



RoHS
Compliant



3.2 x 2.5 x 0.7mm

FEATURES:

- Low in height; suitable for thin equipment, 0.8mm max
- Seam sealed package assures high reliability
- Tight tolerance and stability available
- Suitable for RoHS reflow
- Available for fundamental and 3rd over tone mode

APPLICATIONS:

- High density applications
- Modems, communication and test equipment
- PMCIA, Wireless applications

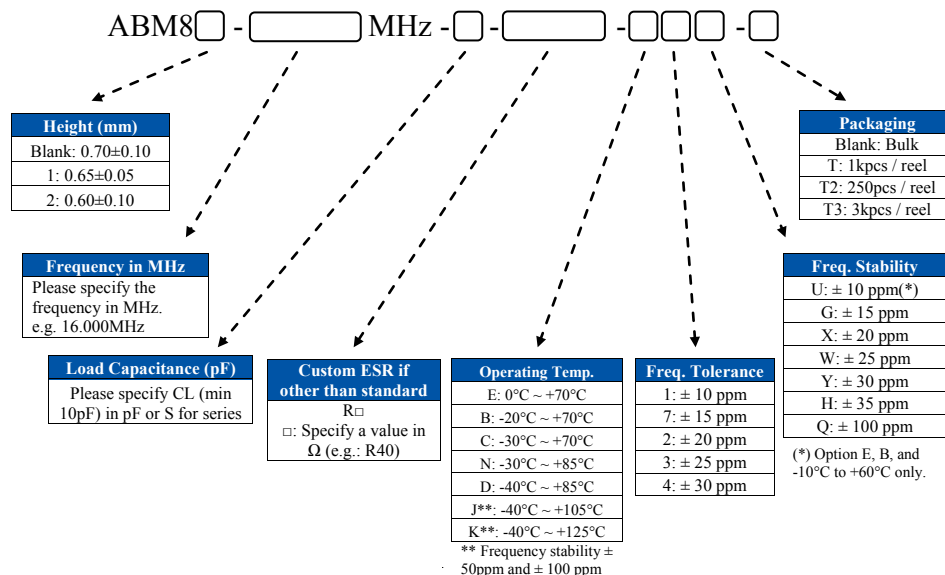
STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	10.000	-----	125.000*	MHz	Contact Abracon for available F<11MHz
Operation Mode	Fundamental			-----	10MHz - 54MHz
	3rd Overtone (Standard Frequencies: 64, 66, 66.6666, 75, 80, 98.304, 100, 125MHz)			-----	64.000 MHz - 125.000 MHz Please contact Abracon for available frequencies
Operating Temperature	-10	-----	+60	°C	See options
Storage Temperature	-55	-----	+125	°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)	See table 1 below			Ω	
Shunt capacitance (C0)	-----	-----	7.0	pF	
Load capacitance (CL)	-----	18.0	-----	pF	Standard (See options if other than STD)
Drive Level	-----	10	100	μW	
Aging	-3	-----	+3	ppm	@25°C±3°C First year
Insulation Resistance	500	-----	-----	MΩ	@ 100Vdc ± 15V

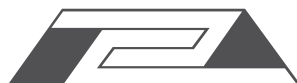
TABLE 1- Standard ESR

Frequency (MHz)	ESR(Ω) max	Frequency (MHz)	ESR(Ω) max
10.000 -11.999 (Fund)	200	30.000 - 39.999 (Fund)	40
12.000 -15.999 (Fund)	120	40.000 - 54.000 (Fund)	35
16.000 -19.999 (Fund)	70	66.000 - 80.000 (3rd OT)	120
20.000 - 29.999 (Fund)	50	98.304 - 125.000 (3rd OT)	80

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)



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RoHS
Compliant

3.2 x 2.5 x 0.7mm

Front View: Shows a rectangular package with a central cutout. Dimensions: Width 0.126 ± 0.008 (3.2 ± 0.2), Height 0.098 ± 0.008 (2.5 ± 0.2).

Bottom View: Shows the package with four mounting pads. Dimensions: Pad width 0.047 (1.2), Pad height 0.035 ± 0.006 (0.9 ± 0.15), Pad spacing 0.026 ± 0.006 (0.65 ± 0.15), Pad height 0.04 (1.0).

Top View: Shows the package with four mounting pads. Dimensions: Pad width 0.047 (1.2), Pad height 0.035 ± 0.006 (0.9 ± 0.15), Pad spacing 0.026 ± 0.006 (0.65 ± 0.15), Pad height 0.04 (1.0).

Recommended land pattern: Shows the recommended land pattern for the package. Dimensions: Pad width 0.033 (0.8), Pad height 0.052 (1.3), Pad spacing 0.039 (1.0), Pad height 0.041 (1.05).

Table 2

Height (mm)	
ABM8	0.80 max
ABM81	0.65+/-0.05
ABM82	0.60+/-0.10

Dimensions: inch (mm)

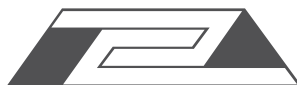
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The graph illustrates the temperature profile for the reflow soldering process. The Y-axis represents Temperature (°C) with marked values at 25°C, 150°C, 180°C, 230°C, and 260°C. The X-axis represents Time (seconds) with three main phases: Pre-Heat, Reflow, and Cool. The profile starts at 25°C, ramps up to 150°C, and then dwells for 60~120s. It then ramps up to 260°C, dwells for 30~40s, and finally ramps down. A note indicates '10s max. 1 time at +260°C±5°C'.



Need a test socket for the ABM8 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, [click here.](#)

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