ULTRA MINIATURE CERAMIC SMD CRYSTAL



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





ABM8

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

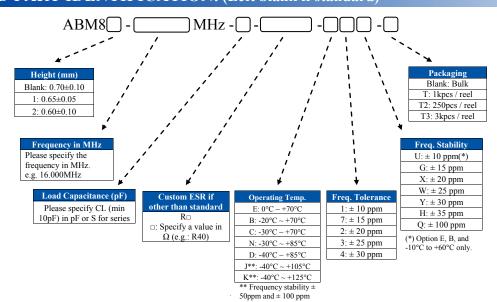
STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	10.000		125.000*	MHz	Contact Abracon for available F<11MHz
	Fundamental				10MHz - 54MHz
Operation Mode	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			ΜΩ	@ 100 Vdc ± 15 V

TABLE 1- Standard ESR

	$\mathrm{ESR}(\Omega)$		$\mathrm{ESR}(\Omega)$
Frequency (MHz)	max	Frequency (MHz)	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)



ABRACON IS ISO9001:2008 CERTIFIED



ULTRA MINIATURE CERAMIC SMD CRYSTAL

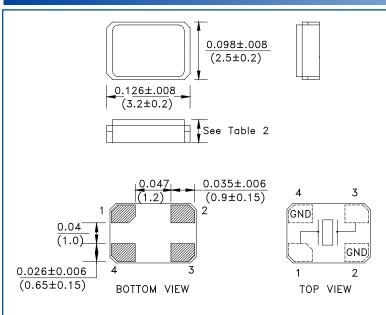
ABM8





 $3.2 \times 2.5 \times 0.7$ mm

OUTLINE DRAWING:



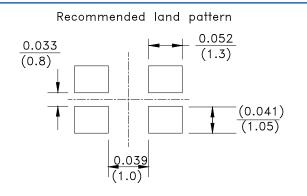


Table 2 Height (mm) ABM8 0.80 max ABM81 0.65 + / -0.050.60 + / -0.10ABM82

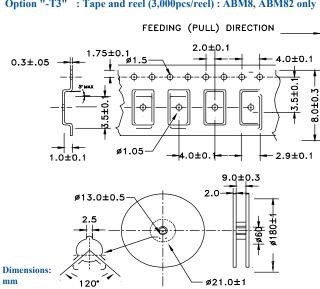
Dimensions: inch (mm)

► TAPE & REEL:

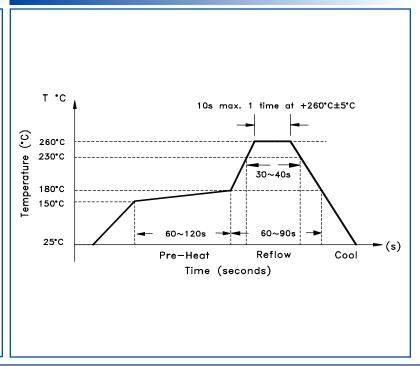
: Tape and reel (1,000pcs/reel) : ABM8, ABM82 Tape and reel (3,000pcs/reel): ABM81

Option "-T2" : Tape and reel (250pcspcs/reel) : ABM8

Option "-T3" : Tape and reel (3,000pcs/reel) : ABM8, ABM82 only



REFLOW PROFILE:





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

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.



