ULTRA MINIATURE CERAMIC SMD CRYSTAL

3.2 x 2.5 x 0.8mm

ABM8

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

Pb RoHS Compliant

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	ºC	See options
Storage Temperature	-55	-----	+125	ºC	
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)

ABM8☐ - ☐☐☐☐☐ MHz - ☐ - ☐☐☐☐☐ - ☐☐☐ - ☐

Height (mm)
- Blank: 0.80±0.10
- 1: 0.65±0.05
- 2: 0.60±0.10

Frequency in MHz
Please specify the frequency in MHz. e.g. 16.000MHz

Load Capacitance (pF)
Please specify CL (min 10pF) in pF or S for series

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

** Frequency stability ± 50ppm and ± 100 ppm

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

(*) Option E, B, and -10°C to +60°C only.

Packaging
- Blank: Bulk
- T: 1kpcs / reel
- T2: 250pcs / reel
- T3: 3kpcs / reel

2 Faraday, Suite# B | Irvine | CA 92618 **Revised: 08.19.15**
Ph. 949.546.8000 | Fax. 949.546.8001
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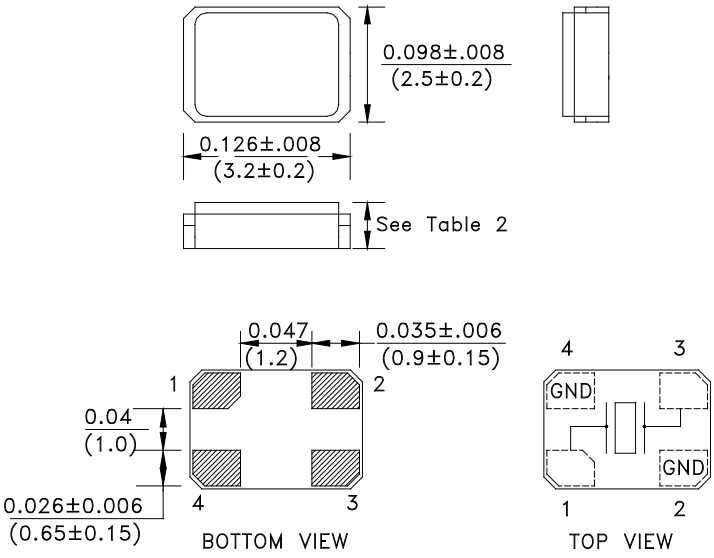
OUTLINE DRAWING:



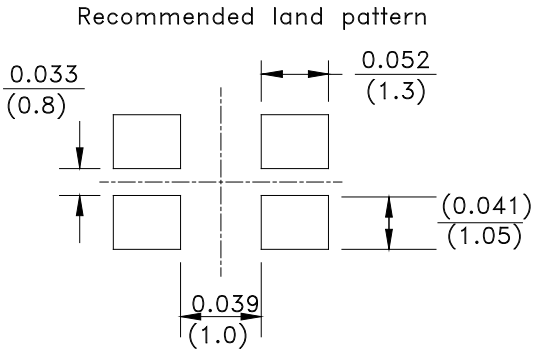


Table 2

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

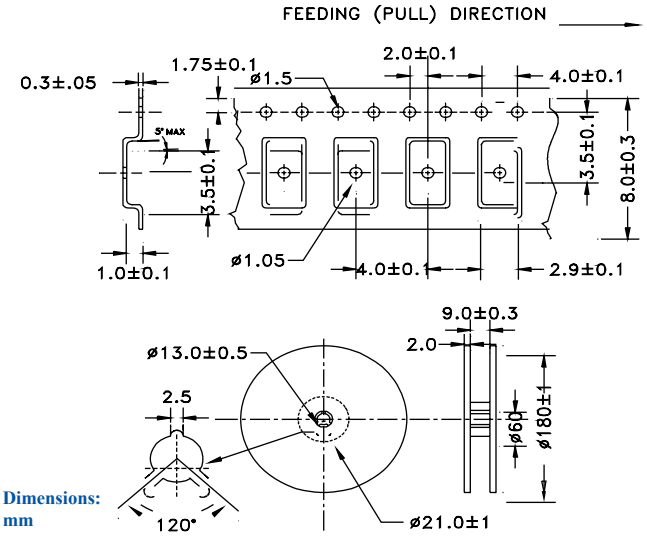
Dimensions: inch (mm)

TAPE & REEL:

Option "-T" : Tape and reel (1,000pcs/reel) : ABM8, ABM82
Tape and reel (3,000pcs/reel) : ABM81

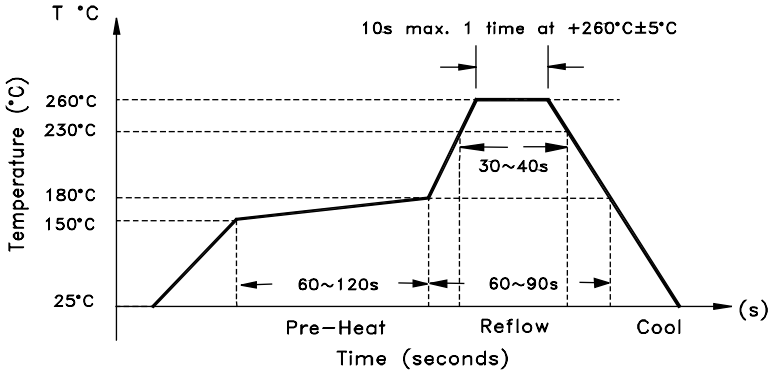
Option "-T2" : Tape and reel (250pcspcs/reel) : ABM8

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



Dimensions: mm

REFLOW PROFILE:



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