

# CERAMIC SMD MICROPROCESSOR CRYSTAL

ABM2

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

RoHS  
Compliant



8.0 x 4.5 x 1.4mm

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

## FEATURES:

- Low in height; suitable for thin equipment
- Glass sealed package assures high reliability and high temperature operation
- Tight tolerance and stability available
- Suitable for RoHS compliant reflow
- Low cost glass sealed crystal solution

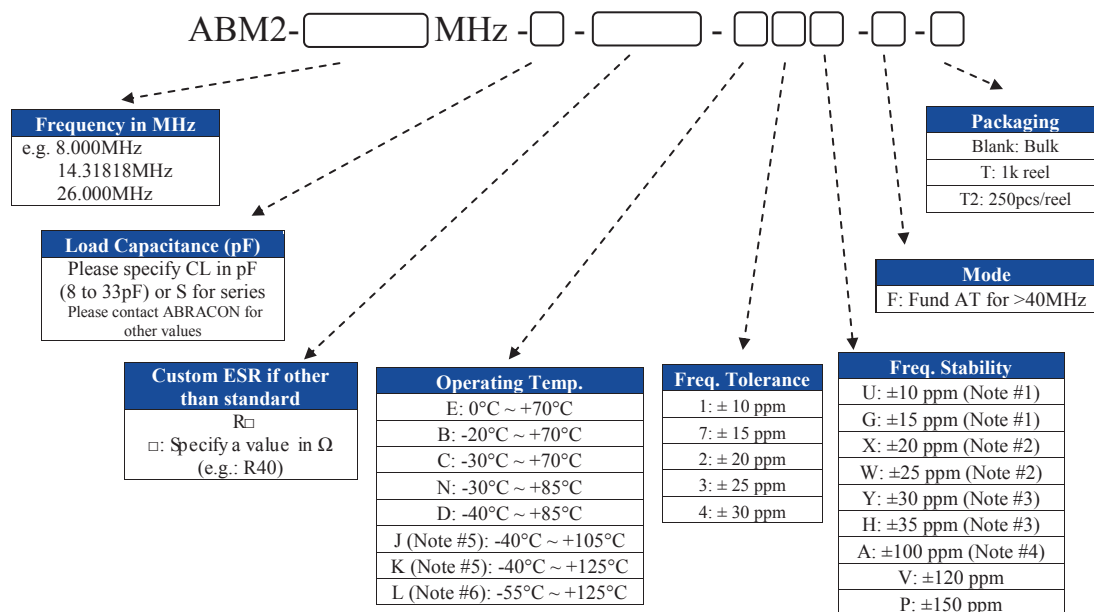
## APPLICATIONS:

- High density applications
- Modems, communication and test equipment
- PCMCIA, Wireless applications
- Microprocessor crystals

## STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	8.000	-----	100.000		Fundamental
Operation mode	8.000	-----	40.000	MHz	Fundamental AT-cut (Standard)
	40.001	-----	100.000		3 <sup>rd</sup> OT AT-cut (Standard)
	40.001	-----	60.000		Fundamental AT-cut (See options)
Operating Temperature	-10	-----	+60	°C	See options
Storage Temperature	-40	-----	+85	°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)	-----	-----	100	Ω	8.000 – 10.000999MHz (Fundamental)
	-----	-----	60		10.001 – 15.999999MHz (Fundamental)
	-----	-----	50		16.000 – 60.000999MHz (Fundamental)
	-----	-----	70		40.000 – 100.000999MHz (3 <sup>rd</sup> OT)
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

## OPTIONS AND PART IDENTIFICATION: (Left blank if standard)



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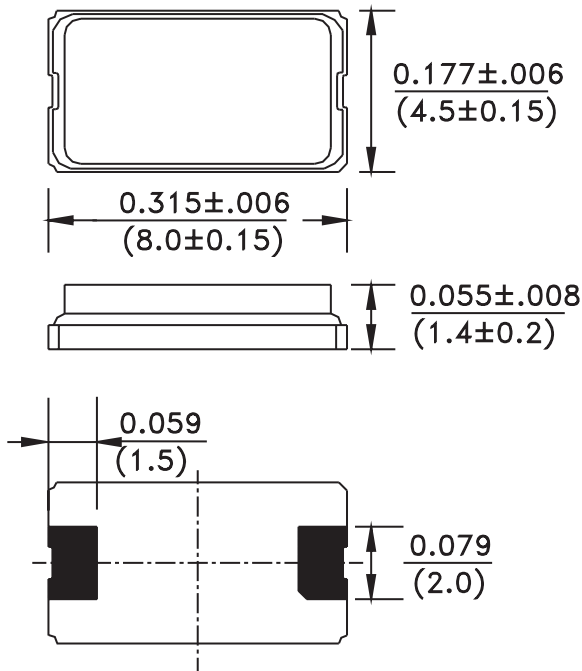
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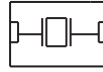


8.0 x 4.5 x 1.4mm

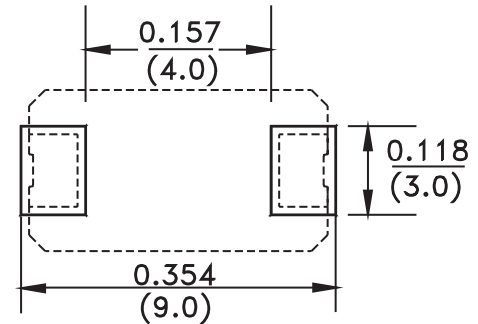
## OUTLINE DRAWING:



CONNECTION



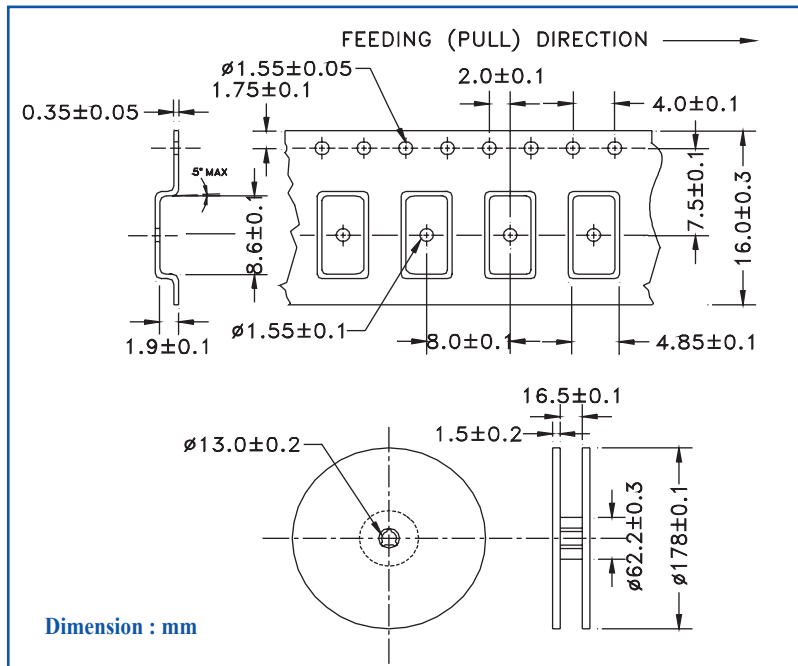
Recommended land pattern



**Note:** Due to the availability of raw materials, the chamfer may not appear on the both pads. Be advised that this does not affect the electrical characteristics of the crystal in any way.

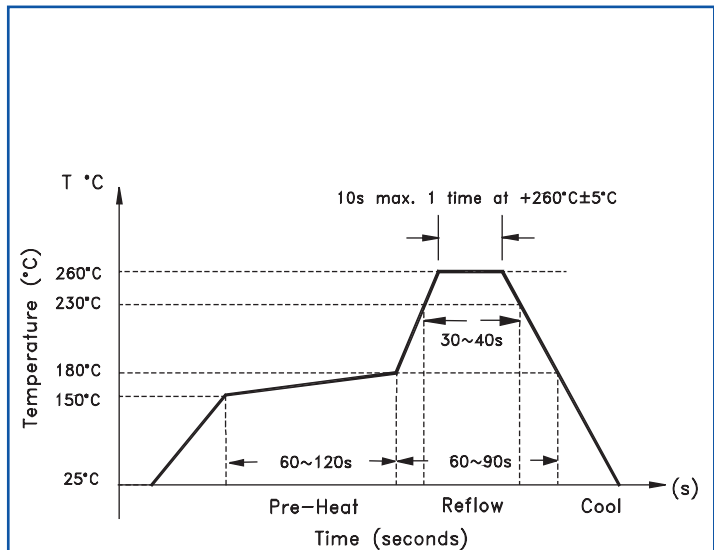
Dimension : Inches (mm)

## TAPE & REEL: Tape and reel 1,000pcs/reel



Dimension : mm

## REFLOW PROFILE



**Need a test socket for the ABM2 Series? To view compatible PRECISION TEST & BURN-IN SOCKETS for these parts, [click here](#).**

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