## **CERAMIC SMD MICRO MINIATURE MICROPROCESSOR CRYSTAL**



(exempt per RoHS 2002/95/EC Annex (5)) RoHS/RoHS II Compliant



6.0 x 3.5 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 (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		39.999999	MHz	Fundamental AT- cut (Standard)
	40.000		80.000		3 <sup>rd</sup> 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	S	See table 1 below	v	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			ΜΩ	@ 100Vdc

## (\*) Frequency above 40MHz based on availability. Please contact ABRACON

#### Table 1

Frequency (MHz)	$ESR(\Omega)$ max.	<b>Operation Mode</b>
8.000 - 9.999	100	Fundamental
10.000 - 11.999	80	Fundamental
12.000 - 15.999	60	Fundamental
16.000 - 50.000	50	Fundamental
40.000 - 80.000	70	3 <sup>rd</sup> Overtone





## **CERAMIC SMD MICRO MINIATURE MICROPROCESSOR CRYSTAL**

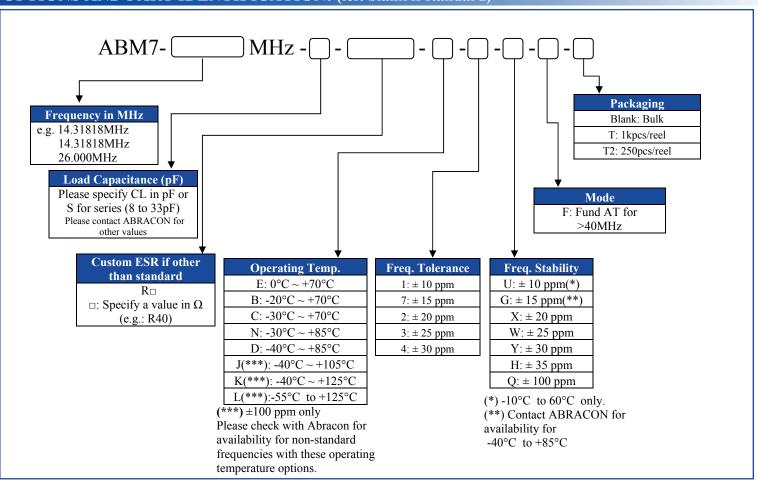
ABM7

(exempt per RoHS 2002/95/EC Annex (5)) RoHS/RoHS II Compliant

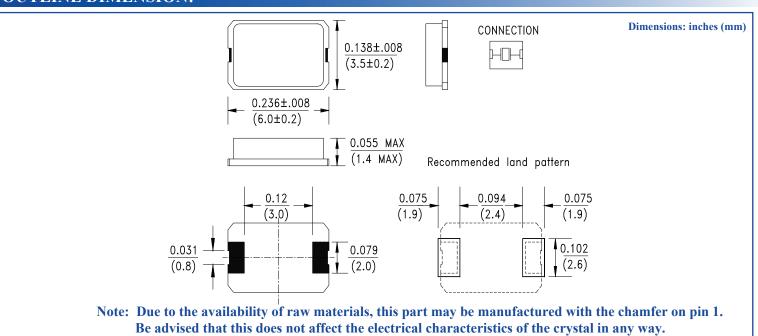


6.0 x 3.5 x 1.4mm

## **OPTIONS AND PART IDENTIFICATION:** (left blank if standard)



## **OUTLINE DIMENSION:**



ABRACON IS ISO9001:2008 CERTIFIED



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ABM7

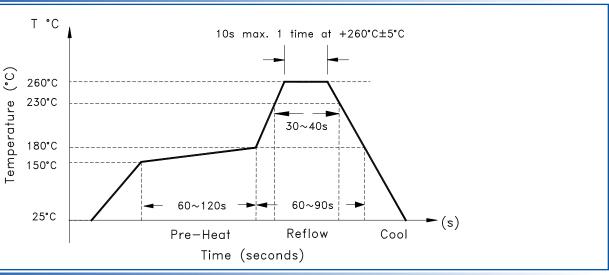
Pb in Glass (exempt per RoHS 2002/95/EC Annex (5))

**RoHS/RoHS II Compliant** 

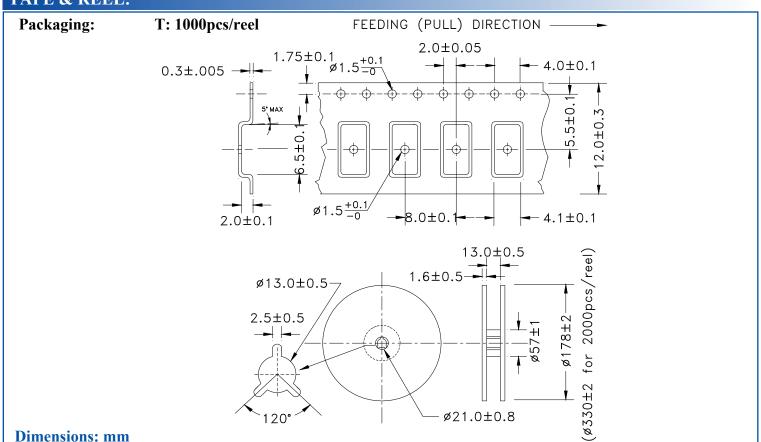


6.0 x 3.5 x 1.4mm

**REFLOW PROFILE:** 



## TAPE & REEL:



**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-dependent 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.



