MINIATURE CERAMIC SMD CRYSTAL



Pb in Glass, exemption 7C-I per RoHS II Directive | RoHS/RoHS II Compliant. 2011/65/EU Annex



5.0 X 3.2 X 1.3mm

Smaller package alternative for ABM7 series

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

FEATURES:

- AT-cut fundamental or 3rd OT mode
- Suitable for RoHS reflow profile
- Tight Stability available ± 10
- Ceramic package hermetically glass sealed assures high precision and reliability.

> APPLICATIONS:

- Cellular telephones, pagers
- Communication and test equipment
- PCMCIA and wireless applications

STANDARD SPECIFICATIONS:

Parameters	Minimum Typical Maximum		Units	Notes		
Frequency Range	8.000		54.000	MHz	Fundamental	
Frequency Kange	54.100		80.000	MIUZ	3 rd Overtone	
Operation Mode	Fundamental or 3 rd Overtone					
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 (R1)			140	Ω	$8.000 \le F < 9.000 \text{ (Fund)}$	
			120		$9.000 \le F \le 10.000 \text{ (Fund)}$	
			60		$10.000 \le F < 16.000 \text{ (Fund)}$	
			40		$16.000 \le F < 20.000 \text{ (Fund)}$	
			30		$20.000 \le F < 30.000 \text{ (Fund)}$	
			25		$30.000 \le F \le 54.000 \text{ (Fund)}$	
			60		$54.000 < F \le 80.000 (3^{rd} OT)$	
Shunt capacitance (C0)			7	pF		
Load capacitance (CL)	18		pF	Standard (See options if other than STD)		
Drive Level		10	100	μW		
Aging	-5		+5	ppm	@25°C±3°C First year	
Insulation Resistance	500			ΜΩ	@ $100 \text{Vdc} \pm 15 \text{V}$	



1501 Hidden Creek Lane Spicewood TX 78751 Phone: 949-546-8000 | Fax: 949-546-8001 For terms and conditions of sales visit: www.abracon.com

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ABM3

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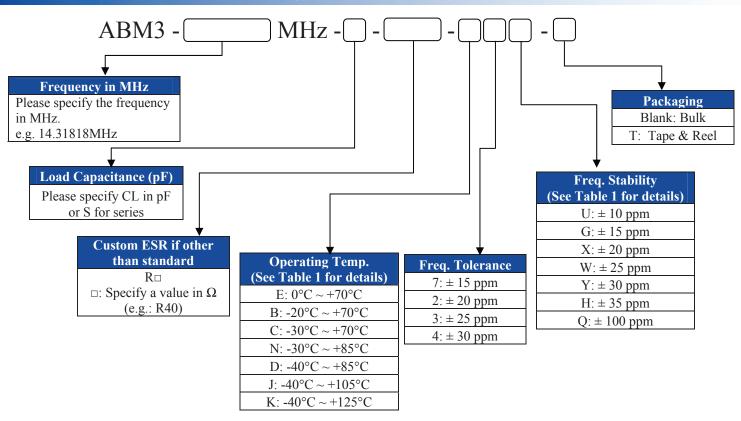


Table 1 Available Combinations of Operating Temp. and Freq. Stability

Operating Temp.	Freq. Stability									
	U:±10ppm	G:±15ppm	X:±20ppm	W:±25ppm	Y:±30ppm	H:±35ppm	Std:±50ppm	Q:±100ppm		
Std: -10°C ~ +60°C	$\sqrt{}$	V	$\sqrt{}$	V	$\sqrt{}$	V	$\sqrt{}$	V		
E: 0°C ~ +70°C	$\sqrt{}$	V	$\sqrt{}$	V	$\sqrt{}$	V	$\sqrt{}$	V		
B: -20°C ~ +70°C	$\sqrt{}$	V	$\sqrt{}$	V	$\sqrt{}$	V	$\sqrt{}$	V		
C: -30°C ~ +70°C		V	V	V	$\sqrt{}$	V	V	V		
N: -30°C ~ +85°C		V	$\sqrt{}$	V	$\sqrt{}$	V	$\sqrt{}$	V		
D: -40°C ~ +85°C			$\sqrt{}$	V	$\sqrt{}$	V	$\sqrt{}$	V		
J: -40°C ~ +105°C							$\sqrt{}$	V		
K: -40°C ~ +125°C							V	V		



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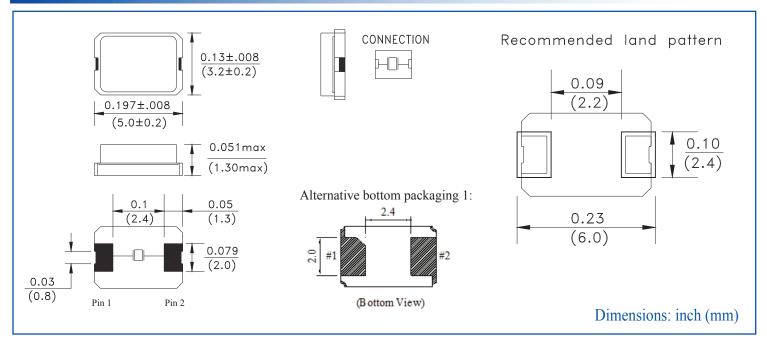
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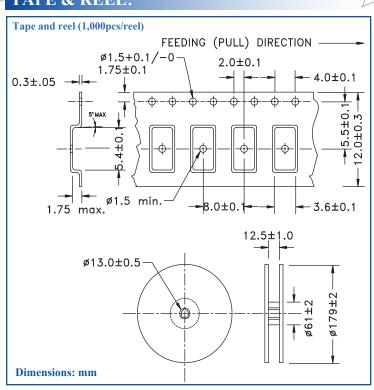


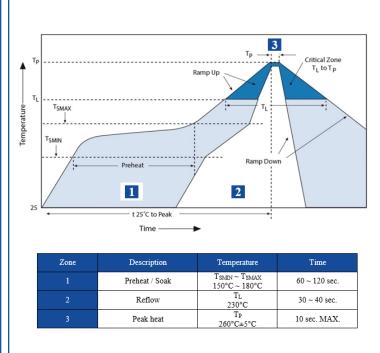
OUTLINE DRAWING:



TAPE & REEL:

REFLOW PROFILE







Need a test socket for the ABM3 Series? To view compatible PRECISION TEST & BURN-IN SOCKETS for these parts, click here. P/N: AXS-5032-02-06

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