

# CERAMIC SMD CRYSTAL



**ABM3C**

RoHS/RoHS II Compliant

5.0 x 3.2 x 1.3mm

ABM3C Series products with the Date Code/Traceability Code marking ending in "X" are Glass-Sealed and the following RoHS Exemption applies: Pb in Glass, exemption 7C-I per RoHS II Directive 2011/65/EU Annex

ABM3C Series products with the Date Code/Traceability Code marking ending in "C" are Seam-Sealed and are Pb-Free.

**Moisture Sensitivity Level – MSL – N/A (The ABM3C Series is a Hermetically Sealed device and not moisture sensitive)**

**FEATURES:**

- Low height; suitable for thin equipment.
- New seam sealed package available (code "C")
- Tight tolerance and stability available.
- Suitable for RoHS compliant reflow profile

**APPLICATIONS:**

- Automotive applications
- High density applications.
- Modems, communication and test equipment.
- PCMCIA, Wireless applications

**STANDARD SPECIFICATIONS:**

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	10.000		50.000	MHz	Fundamental
Operation Mode	Fundamental				
Operating Temperature	-10		+70	°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)			60	Ω	10.000 – 15.999MHz
			50		16.000 – 50.000MHz
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			MΩ	@ 100Vdc ± 15V

**OPTIONS & PART IDENTIFICATION:**

(Left blank if standard)

ABM3C - [ ] MHz - [ ] - [ ] - [ ] - [ ]

**Frequency in MHz**  
Please specify the frequency in MHz.  
e.g. 14.31818MHz

**Load Capacitance (pF)**  
Please specify CL 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

**Freq. Tolerance**  
2: ± 20 ppm  
3: ± 25 ppm  
4: ± 30 ppm

**Freq. Stability**  
Y: ± 30 ppm  
H: ± 35 ppm  
A: ± 80 ppm

**Packaging**  
Blank: Bulk  
T: Tape & Reel



# CERAMIC SMD CRYSTAL

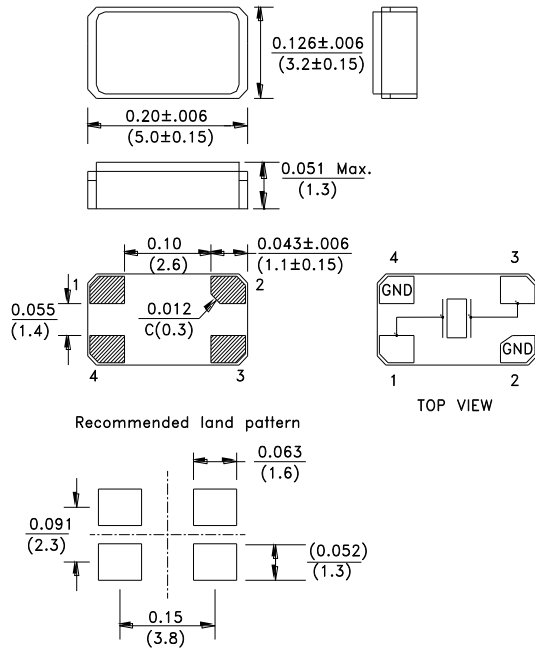
**ABM3C**

**Pb** | RoHS/RoHS II Compliant



5.0 x 3.2 x 1.3mm

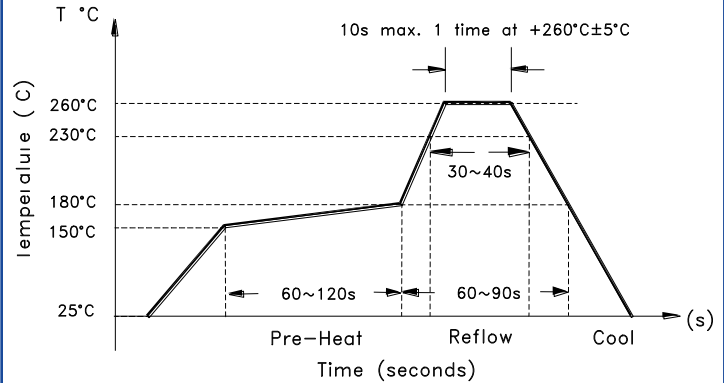
## OUTLINE DRAWING:



Note: Due to the availability of raw materials, this part may be manufactured with the chamfer on pin 1, 2 or 3. Be advised that this does not affect the electrical characteristics of the crystal in any way.

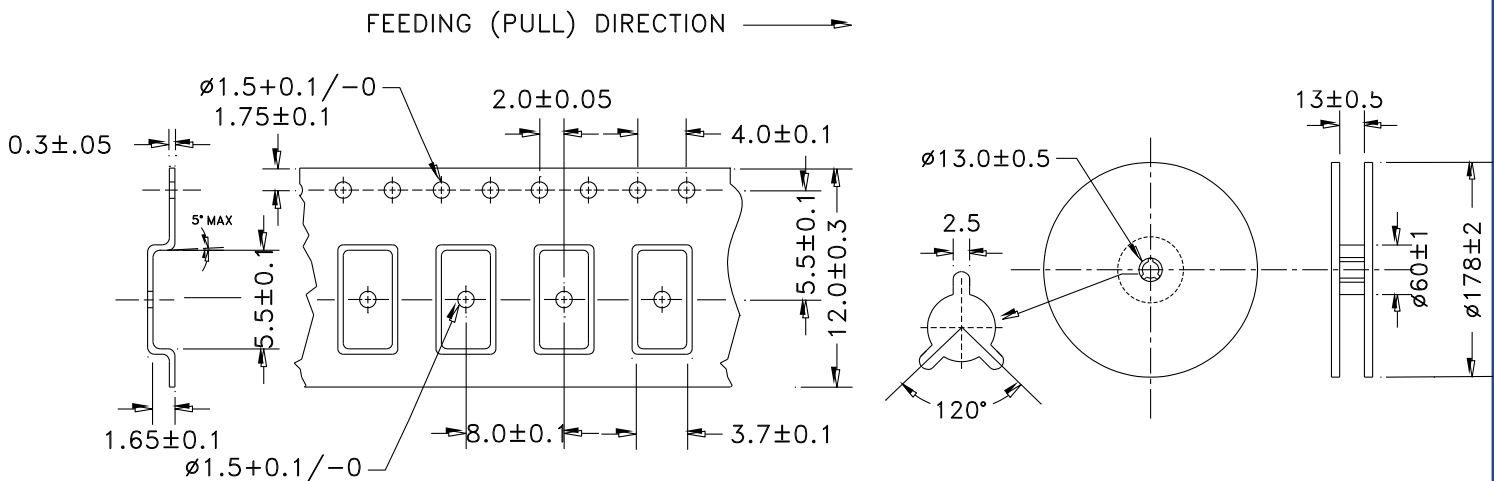
**Dimensions: inches (mm)**

## REFLOW PROFILE:



## TAPE & REEL:

1000pcs/reel



**Dimensions: mm**

**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.

ABRACON IS  
ISO9001:2008  
CERTIFIED



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