

MINIATURE CERAMIC SMD CRYSTAL

ABM3

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

RoHS
Compliant



5.0 X 3.2 X 1.30mm

Smaller package alternative for ABM7 series

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

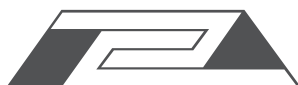
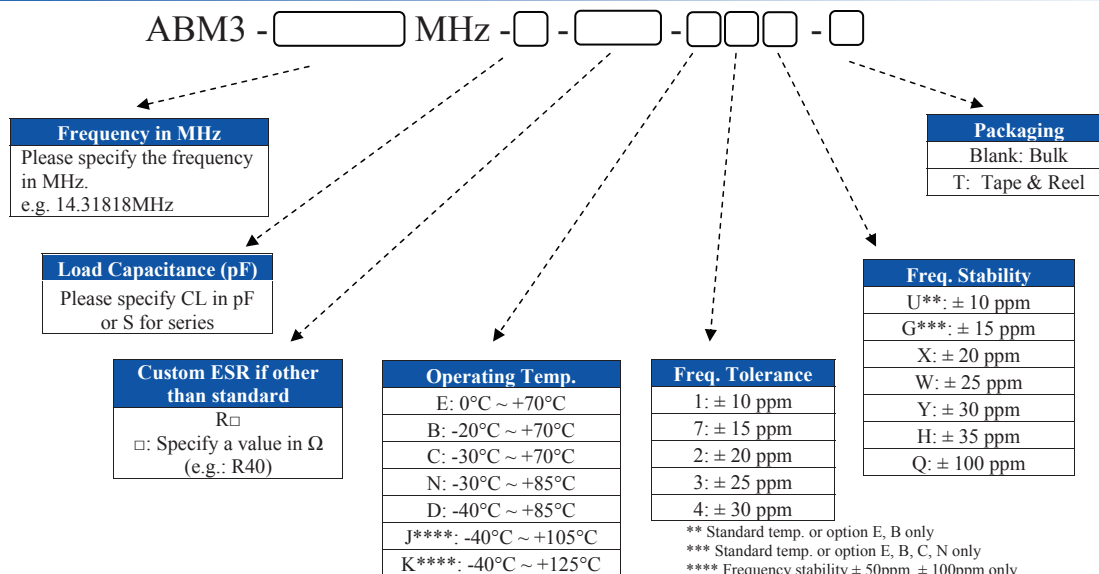
STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	8.000	-----	54.000	MHz	Fundamental
	54.100	-----	80.000		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)	See table 1 below			Ω	
Shunt capacitance (C0)	-----	-----	7	pF	
Load capacitance (CL)	-----	18	-----	pF	Standard (See options if other than STD)
Drive Level	-----	10	100	μ W	
Aging	-5	-----	+5	ppm	@25°C $\pm$ 3°C First year
Insulation Resistance	500	-----	-----	M Ω	@ 100Vdc $\pm$ 15V

Table 1 – Standard ESR

Frequency (MHz)	ESR(Ω) max.	Operation Mode
8.000 – 8.999	500	Fundamental
9.000 – 9.999	200	Fundamental
10.000 – 15.999	60	Fundamental
16.000 – 54.000	50	Fundamental
54.100 – 80.000	60	3 rd Overtone

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)



MINIATURE CERAMIC SMD CRYSTAL

ABM3

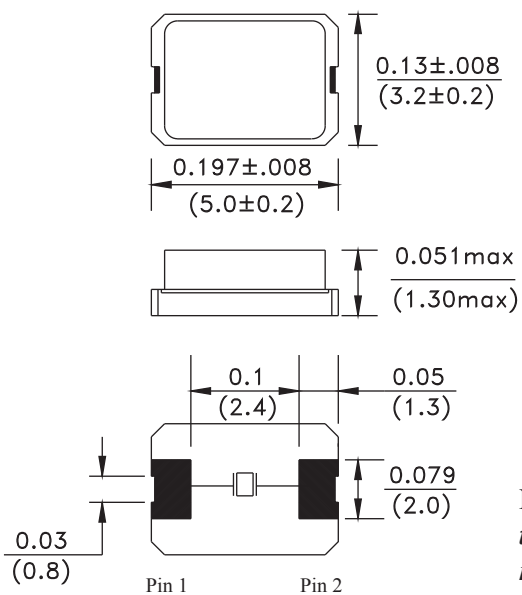
Pb in glass
(exempt per RoHS 2002/95/EC Annex (5))

RoHS
Compliant

ABM3

5.0 X 3.2 X 1.30mm

➤ OUTLINE DRAWING:

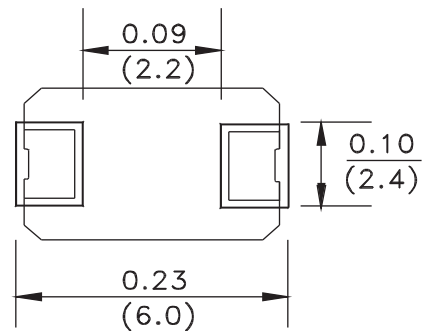


Note: *Due to availability of the ceramic base, a chamfer may appear on pin 1.*

CONNECTION



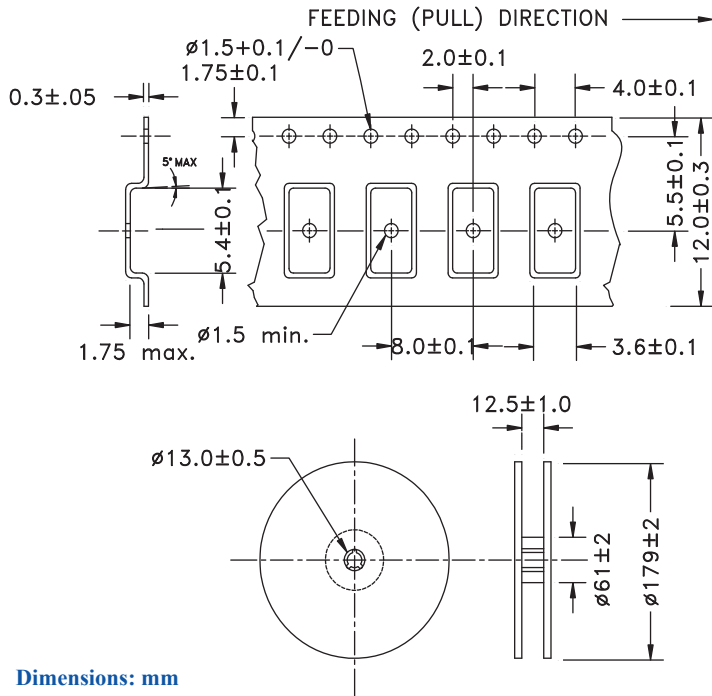
Recommended land pattern



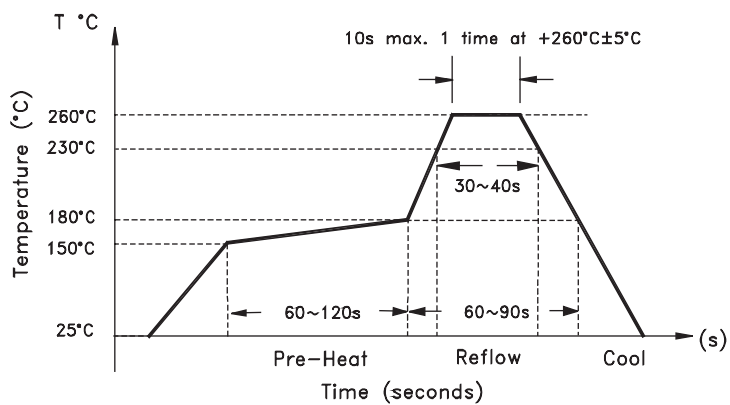
Dimensions: inch (mm)

▶ TAPE & REEL:

Tape and reel (1,000pcs/reel)



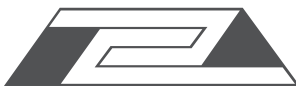
REFLOW PROFILE



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

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.

ABRACON IS
ISO9001:2008
CERTIFIED



ABRACON CORPORATION

Visit www.abracon.com for Terms & Conditions of Sale **Revised: 12.28.10**
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com