

# MINIATURE CERAMIC SMD CRYSTAL



ABM3

5.0 X 3.2 X 1.30mm

ABM3

\*G = Pb in glass (exempt per RoHS 2002/95/EC Annex (5))

**RoHS**  
Compliant

## FEATURES:

- AT-cut fundamental and 3rd OT mode IR reflow capable
- Suitable for reflow.
- Tight Stability available.
- 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

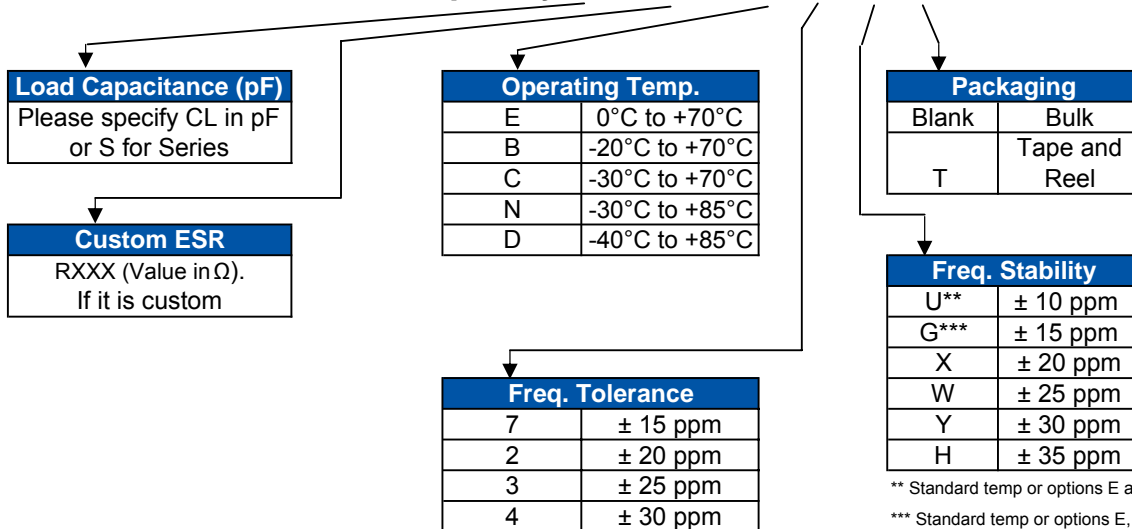
ABRACON P/N	ABM3 Series
Frequency Range	8.0 MHz - 50.0 MHz (50 MHz - 125 MHz :3rd overtone)
Operation Mode	Fundamental or 3rd overtone
Operating Temperature	- 10°C to + 60°C (see options)
Storage Temperature	- 40°C to + 90°C
Frequency Tolerance @ 25°C	± 50 ppm max. (see options)
Frequency Stability over the Operating Temperature (Ref to + 25°C)	± 50 ppm max. (see options)
Equivalent Series Resistance	See table 1
Shunt Capacitance C0	7 pF max.
Load Capacitance CL	18 pF (see options)
Drive Level	100 µW max., 10 µW typical
Aging (First Year) @ 25°C ± 3°C	± 5ppm max.
Insulation Resistance	500 MΩ min at 100Vdc ± 15 V

TABLE 1- Standard ESR

Frequency (MHz)	ESR (Ω) max	Operational Mode
8.000 - 8.999	500	Fundamental
9.000 - 9.999	200	Fundamental
10.000 - 15.999	60	Fundamental
16.000 - 50.000	50	Fundamental
50.001 - 80.000	60	3rd Overtone
80.001 - 125.00	80	3rd Overtone

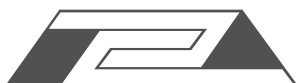
## OPTIONS AND PART IDENTIFICATION:

### ABM3 - Frequency - □ - R□□□ - □ - □ - □ - □



\*\* Standard temp or options E and B only

\*\*\* Standard temp or options E, B, C and N only.



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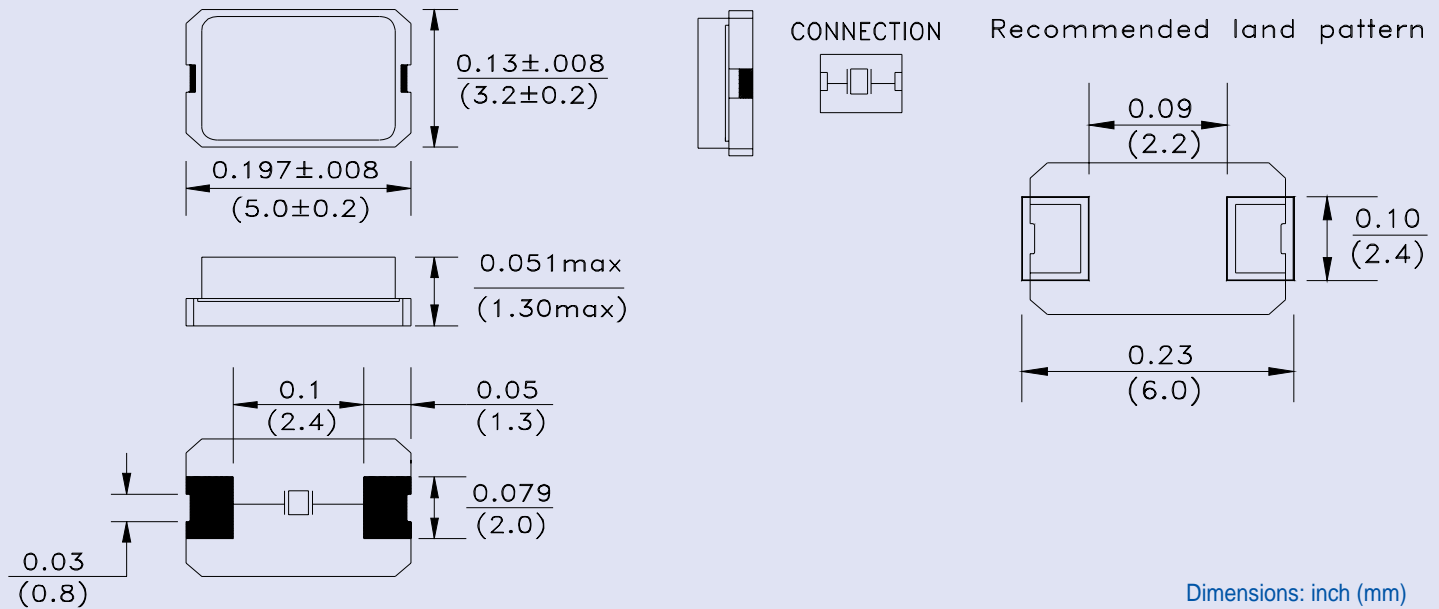
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## OUTLINE DRAWING:



## TAPE & REEL:

