

MINIATURE CERAMIC SMD CRYSTAL



4.0 x 2.5 x 0.7mm

ABM9



RoHS
Compliant

FEATURES:

- Low in height; suitable for thin equipment.
- Ceramic package and metal lid assures high reliability.
- Tight tolerance and stability available.
- Suitable for solder reflow.
- High precision crystal, fundamental mode.

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N	ABM9 Series
Frequency Range	12.00 MHz - 32.00 MHz (*)
Operation Mode	Fundamental AT
Operating Temperature	-10°C to +60°C (see options)
Storage Temperature	-40°C to +105°C
Frequency Tolerance	± 50 ppm max. (see options)
Frequency Stability over the Operating Temp. (Ref to +25°C)	± 50 ppm max. (see options)
Equivalent Series Resistance	See Table 1
Shunt Capacitance C ₀	7pF max.
Load Capacitance C _L	18pF (see options)
Drive Level	100µW max., 10µ W typical
Aging at 25°C Per Year	± 5ppm max.
Insulation Resistance	500MΩ min with 100 Vdc ± 15 Vdc

TABLE 1 - Standard ESR

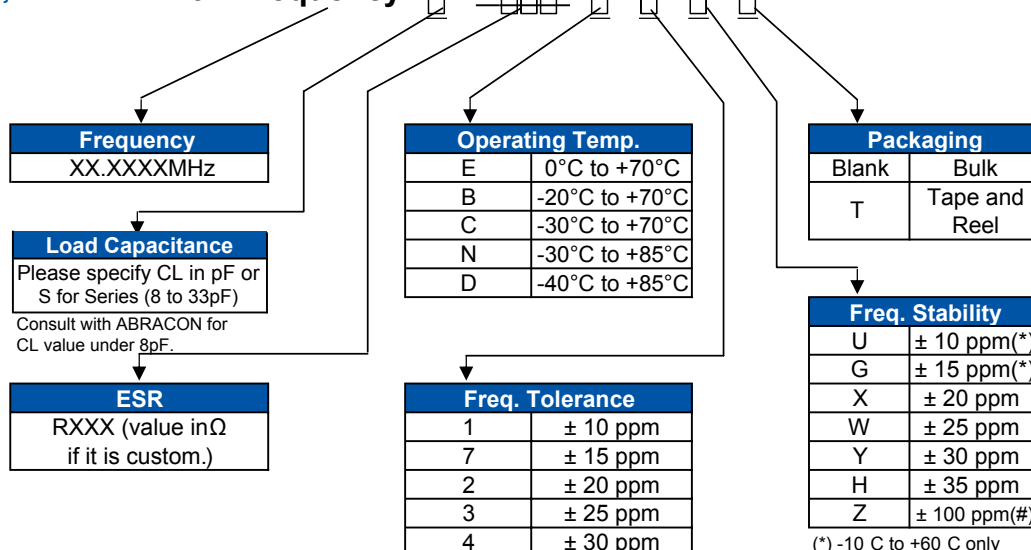
FREQ (MHz)	ESR (Ω)max.
12.000 - 23.999	80
24.000 - 32.000	60

(*) Frequencies above 32MHz based on availability. Please contact ABRACON for further details.

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ABM9 - Frequency - - R



(*) -10 C to +60 C only

(#) For extended temperatures.

*Contact ABRACON for tighter freq. stability.



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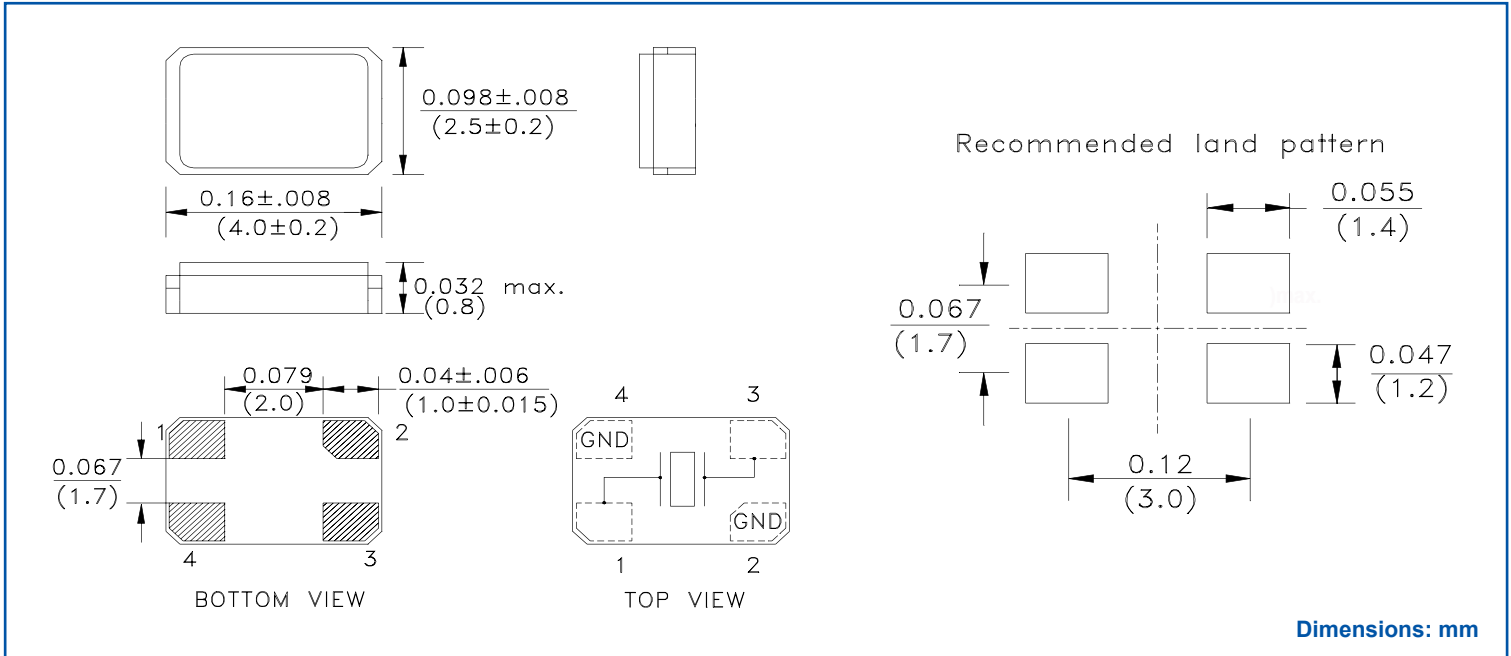
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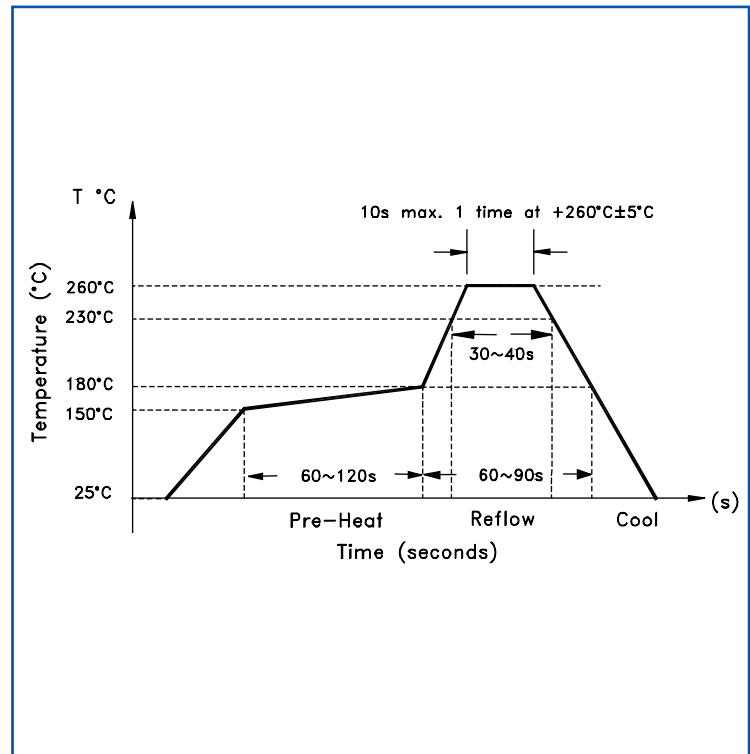
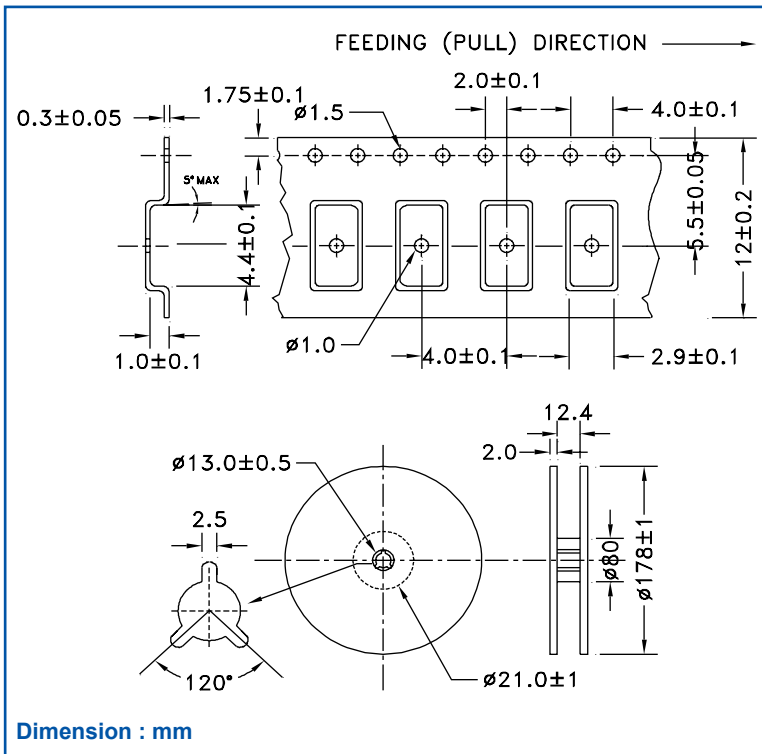
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OUTLINE DRAWING:



TAPE & REEL: Tape and reel (1,000pcs or 3,000pcs/reel)

REFLOW PROFILE:



NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.