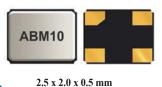
CERAMIC SMD ULTRA MINIATURE QUARTZ CRYSTAL

ABM10

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





FEATURES:

- Suitable for RoHS reflow profile
- Tight stability available ± 10 ppm over -10 to +60°C
- Seam sealed ceramic package assures high precision and reliability

> APPLICATIONS:

- · Blue-tooth, Wireless applications
- Computers, Modems, Microprocessors PCMCIA
- Communication, Test equipment
- High density applications
- Portable radios and MP3 players

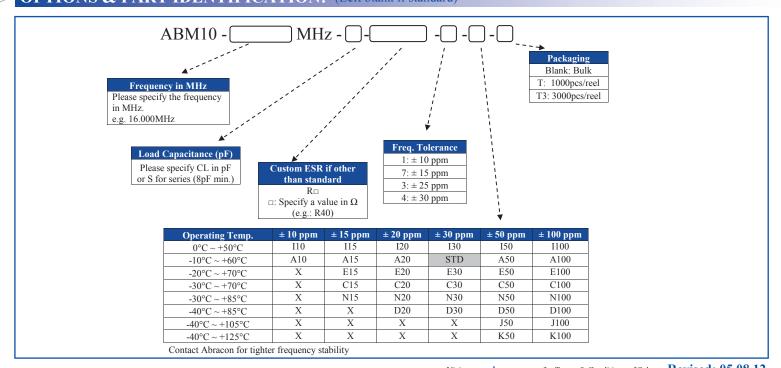
STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	16.000		55.000	MHz	Fundamental
Operation Mode	Fundamental				
Operating Temperature	-10		+60	°C	See options
Storage Temperature	-40		+125	°C	
Frequency Tolerance @+25°C			±20	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25°C)			±30	ppm	See options
Equivalent series resistance (R1)	See table 1 below		Ω		
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)	10		pF	Standard (See options if other than STD)	
Drive Level		10	100	μW	
Aging@25°C±3°C			±5	ppm	First year
Insulation Resistance	500			ΜΩ	@ $100 \text{Vdc} \pm 15 \text{V}$

Table 1 – standard ESR

Frequency (MHz)	ESR(Ω) max.
16.000 - 19.999	150
20.000 - 29.999	100
30.000 - 55.000	70

> OPTIONS & PART IDENTIFICATION: (Left blank if standard)



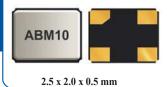




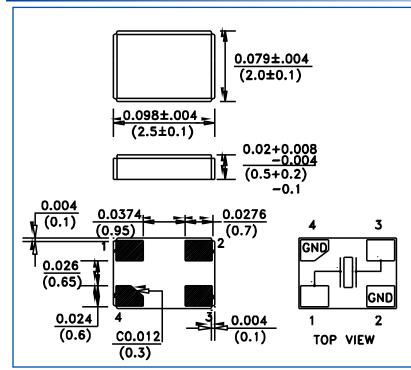
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OUTLINE DRAWING:

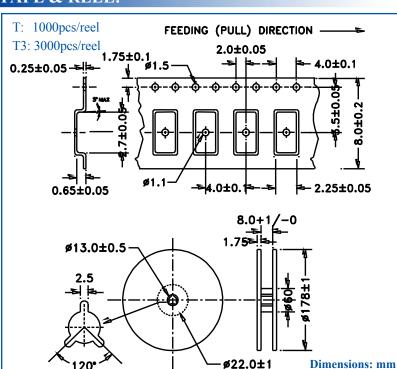


Recommended land pattern 0.018 (0.45) (0.9) 0.032 2X 0.032 (0.75)

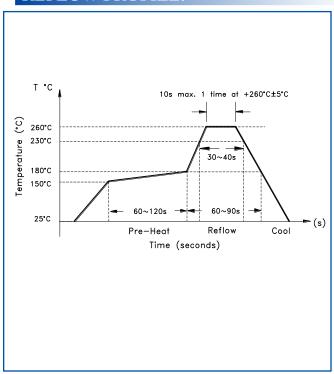
Note: Due to the availability of raw materials, the chamfer location may vary (Pin 1, 2 or 4). Be advised that this does not affect the electrical characteristics of the crystal in any way.

Dimensions: inches (mm)

TAPE & REEL:



REFLOW PROFILE:





Need a test socket for the ABM10 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here.** P/N: **AXS-2520-04-10**

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.



