CERAMIC SMD ULTRA MINIATURE QUARTZ CRYSTAL

Moisture Sensitivity Level (MSL) – This product is Hermetically

Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable



2.5 x 2.0 x 0.5 mm

ABM10

FEATURES:

- Suitable for RoHS reflow profile
- Tight stability available ± 10 ppm over -10 to $+60^{\circ}$ C
- · Seam sealed ceramic package assures high precision and reliability

STANDARD SPECIFICATIONS:

- **APPLICATIONS:**
 - · Blue-tooth, Wireless applications

Pb

- · Communication, Test equipment
- High density applications
- Computers, Modems, Microprocessors PCMCIA

RoHS

Compliant

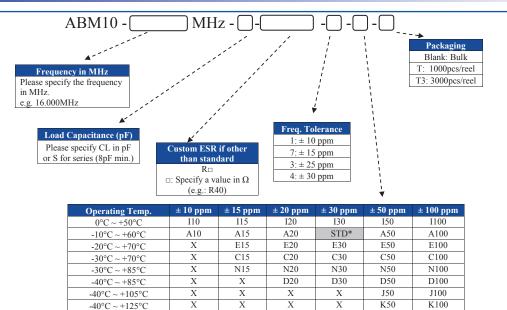
· Portable radios and MP3 players

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	12.000		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 option if other than STD)	
Drive Level		10	100	μW	
Aging@25°C±3°C			±5	ppm	First year
Insulation Resistance	500			MΩ	(<i>a</i>) 100 Vdc ± 15 V

Table 1 – standard ESR

Frequency (MHz)	$\mathrm{ESR}(\Omega)$ max.
12.000 - 15.999	250
16.000 - 19.999	150
20.000 - 29.999	100
30.000 - 55.000	70

OPTIONS & PART IDENTIFICATION: (Left blank if standard)



* Please leave blank, as this is the standard/default spec. Contact Abracon for tighter frequency stability

ABRACON IS ISO9001-2008 CERTIFIED

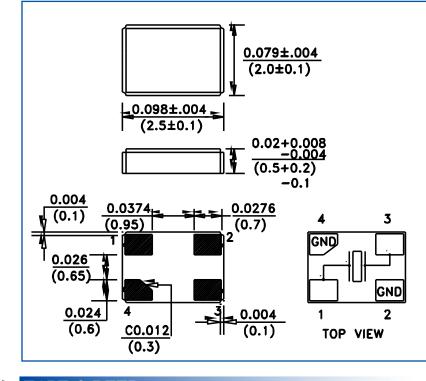


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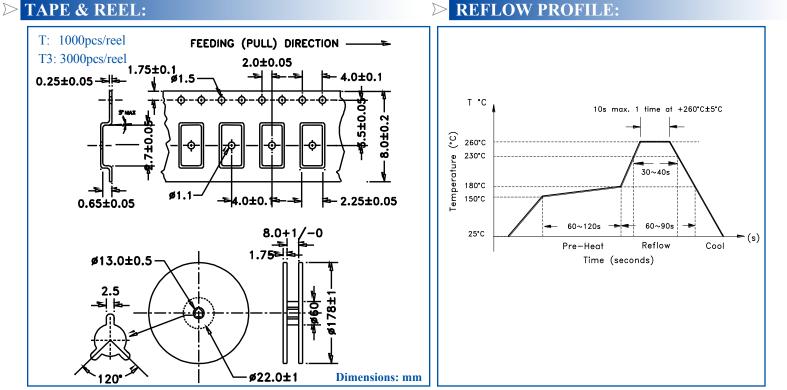
OUTLINE DRAWING:



Recommended land pattern 0.018 (0.45) 0.035 2X 0.09) 2X 0.032 2X 0.032 2X 0.032 2X 0.032 2X 0.035 0.035 2X 0.035 2X 0.035 0.032 2X 0.035 0.035 0.032 2X 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035 0.035

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)



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**

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