

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



RoHS
Compliant



2.5 x 2.0 x 0.5 mm

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
- Communication, Test equipment
- High density applications
- PCMCIA
- Portable radios and MP3 players

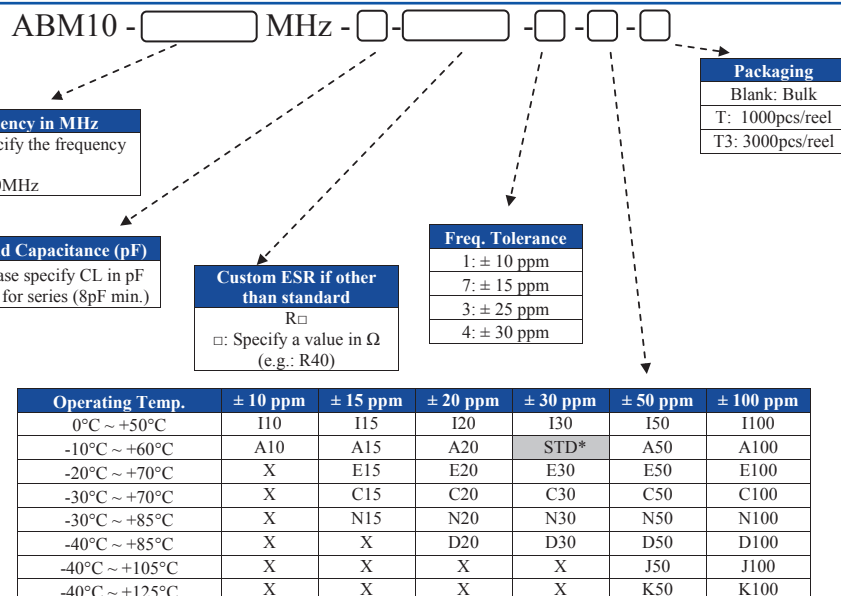
STANDARD SPECIFICATIONS:

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	μ W	
Aging@25°C ± 3 °C			± 5	ppm	First year
Insulation Resistance	500			M Ω	@ 100Vdc ± 15 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)



* Please leave blank, as this is the standard/default spec.

Contact Abracon for tighter frequency stability

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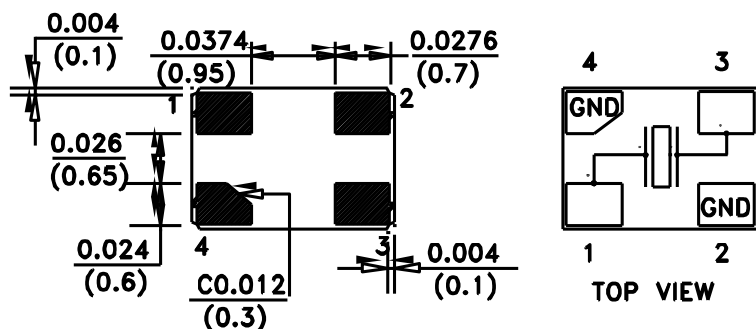


RoHS
Compliant

2.5 x 2.0 x 0.5 mm

Technical drawing of a rectangular plate with dimensions and tolerances:

- Top view: Length 0.098 ± 0.004 (nominal 2.5 ± 0.1), Width 0.079 ± 0.004 (nominal 2.0 ± 0.1).
- Side view: Thickness $0.02 + 0.008 - 0.004$ (nominal $0.5 + 0.2 - 0.1$).



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)

REFLOW PROFILE:

Technical drawing of a circular mechanical part, likely a flange or base plate, showing dimensions and manufacturing specifications.

Top View (Plan View):

- Overall diameter: $\phi 22.0 \pm 1$
- Central hole diameter: $\phi 1.1$
- Four rectangular slots, each with a width of 1.75 ± 0.1 and a length of 4.0 ± 0.1 .
- Distance between the centers of the slots: 4.0 ± 0.1
- Distance from the center to the edge of the slots: 2.25 ± 0.05
- Distance from the center to the edge of the part: 11.0 ± 0.2
- Distance from the center to the edge of the slots (radial): 8.0 ± 0.2
- Distance from the center to the edge of the slots (tangential): 8.0 ± 0.2
- Distance from the center to the edge of the slots (radial): 8.0 ± 0.2
- Distance from the center to the edge of the slots (tangential): 8.0 ± 0.2

Side View (Cross-section):

- Overall thickness: 8.0 ± 0.2
- Top flange thickness: 1.75 ± 0.1
- Bottom flange thickness: 0.65 ± 0.05
- Central hole diameter: $\phi 1.1$
- Distance from the center to the edge of the top flange: 11.0 ± 0.2
- Distance from the center to the edge of the bottom flange: 11.0 ± 0.2
- Distance from the center to the edge of the top flange (radial): 11.0 ± 0.2
- Distance from the center to the edge of the top flange (tangential): 11.0 ± 0.2
- Distance from the center to the edge of the top flange (radial): 11.0 ± 0.2
- Distance from the center to the edge of the top flange (tangential): 11.0 ± 0.2

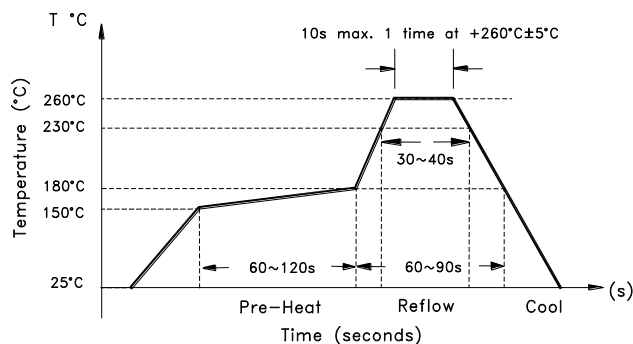
Detail View (Bottom Flange):

- Overall diameter: $\phi 13.0 \pm 0.5$
- Central hole diameter: $\phi 1.1$
- Distance from the center to the edge of the flange: 2.5
- Distance from the center to the edge of the flange (radial): 2.5
- Distance from the center to the edge of the flange (tangential): 2.5
- Distance from the center to the edge of the flange (radial): 2.5
- Distance from the center to the edge of the flange (tangential): 2.5

Feeding (Pull) Direction: Indicated by an arrow pointing to the right.

Dimensions: All dimensions are in millimeters (mm).

Dimensions: 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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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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