

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

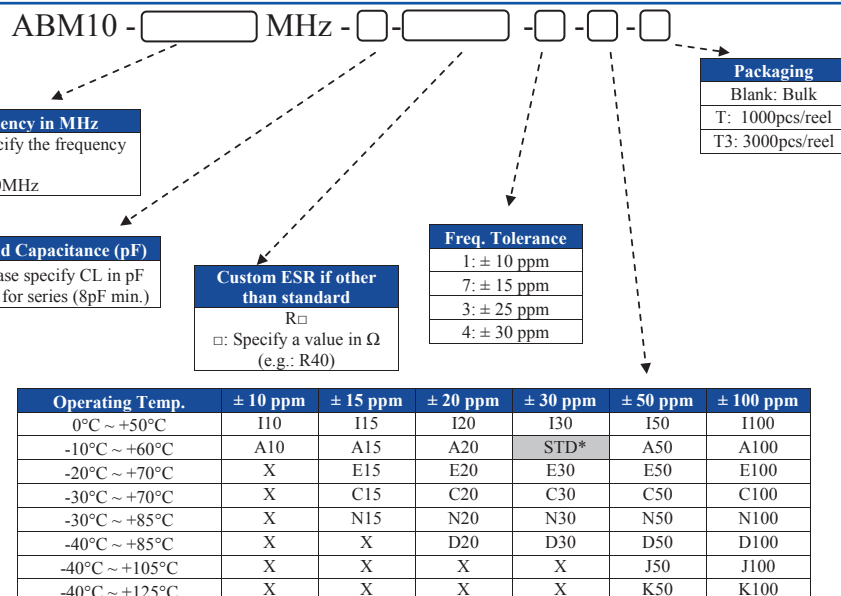
STANDARD SPECIFICATIONS:

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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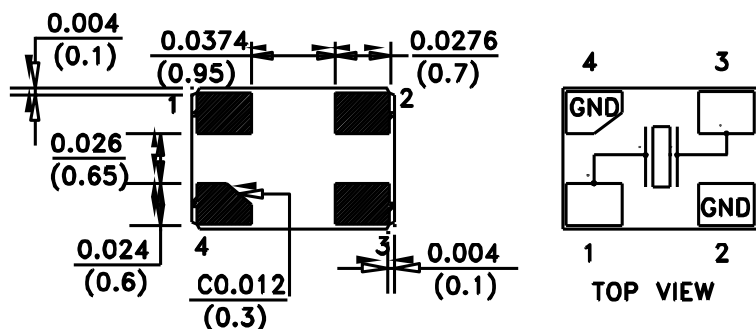


RoHS
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2.5 x 2.0 x 0.5 mm

Technical drawing of a rectangular plate with dimensions and tolerances:

- Top view:
 - Width: 0.079 ± 0.004 (tolerance 2.0 ± 0.1)
 - Length: 0.098 ± 0.004 (tolerance 2.5 ± 0.1)
- Side view:
 - Thickness: $0.02 + 0.008$ (tolerance $0.5 + 0.2$)
 - Bottom tolerance: -0.004 (tolerance -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 a mounting plate. The drawing includes a top view, a cross-sectional view, and a side view.

Top View:

- Overall diameter: $\phi 22.0 \pm 1$
- Central hole diameter: $\phi 1.1$
- Four rectangular slots, each with a width of 4.0 ± 0.1 and a depth of 1.75 ± 0.1 .
- Four circular holes, each with a diameter of $\phi 1.5$, spaced at 4.0 ± 0.1 intervals.
- Outer edge features a flange with a thickness of 0.25 ± 0.05 and a width of 0.65 ± 0.05 .
- Four mounting holes, each with a diameter of $\phi 1.78 \pm 1$, spaced at 8.0 ± 0.2 intervals.

Cross-sectional View:

- Shows the internal structure of the part, including the central hole and the rectangular slots.
- Indicates a maximum stress concentration factor of S^{MAX} .
- Shows the internal diameter of the central hole as $\phi 1.1$.

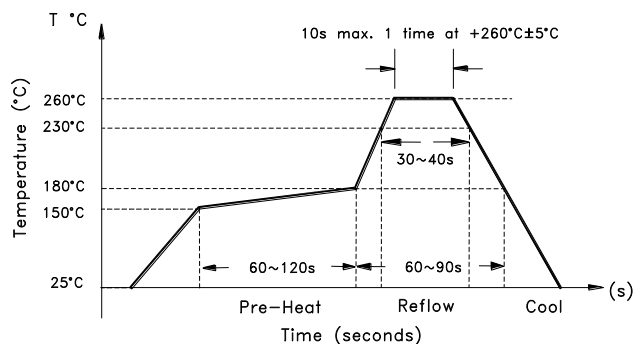
Side View:

- Shows the overall height of the part, which is 8.0 ± 0.2 .
- Indicates the thickness of the flange as 0.25 ± 0.05 .

Dimensions:

- Overall diameter: $\phi 22.0 \pm 1$
- Central hole diameter: $\phi 1.1$
- Rectangular slot width: 4.0 ± 0.1
- Rectangular slot depth: 1.75 ± 0.1
- Circular hole diameter: $\phi 1.5$
- Outer flange thickness: 0.25 ± 0.05
- Outer flange width: 0.65 ± 0.05
- Mounting hole diameter: $\phi 1.78 \pm 1$
- Mounting hole spacing: 8.0 ± 0.2

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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- Поставка более 17-ти миллионов наименований электронных компонентов;
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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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