

ULTRA MINIATURE CERAMIC PACKAGE HIGH STABILITY SMD CRYSTAL

ABM8X



RoHS
Compliant



3.2 x 2.5 x 0.6mm

FEATURES:

- -40°C to +125°C wide operating temperature range
- ± 40 ppm Max. All Inclusive frequency stability over 10-year product life
- Fundamental Mode, low ESR Quartz design
- Ultra miniature, Seam-Sealed, RoHS compliant reflow-able package

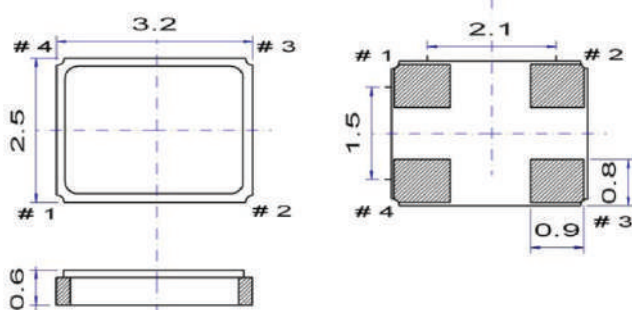
APPLICATIONS:

- Zigbee based designs for indoor / outdoor applications
- Wireless Sensor Networks
- Industrial Control
- Home and Building Automation
- Consumer Electronics
- PC Peripherals

STANDARD SPECIFICATIONS

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency	----	24.000 32.000	----	MHz	
Operation Mode	Fundamental				
Operating Temperature	-40	----	+125	°C	
Storage Temperature	-55	----	+155	°C	
Overall Frequency Stability (All inclusive)	-40	----	+40	ppm	
Frequency Tolerance	-10	----	+10	ppm	
Frequency Stability over the Operating Temperature Range (ref. to +25°C)	-25	----	+25	ppm	
Aging	-5	----	+5	ppm	@25 $\pm$ 3°C 10 years
Equivalent series resistance (R1)	----	----	60	Ω	
Shunt capacitance (C0)	----	----	2.5	pF	
Motional capacitance (C1)	----	2.0	----	fF	
Load capacitance (CL)	----	10	----	pF	
Drive Level	50	----	100	μ W	
Insulation Resistance	500	----	----	M Ω	@100Vdc $\pm$ 15V

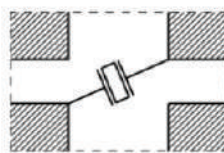
OUTLINE DIMENSIONS:



Pin function

- # 1 crystal connection
- # 2 GND
- # 3 crystal connection
- # 4 GND

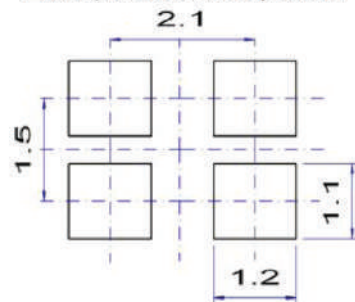
Top view



Pad #2 & #4 connected with the metal cap

Do not design any conductive path between the pattern

Example for solder pattern



Dimensions: mm

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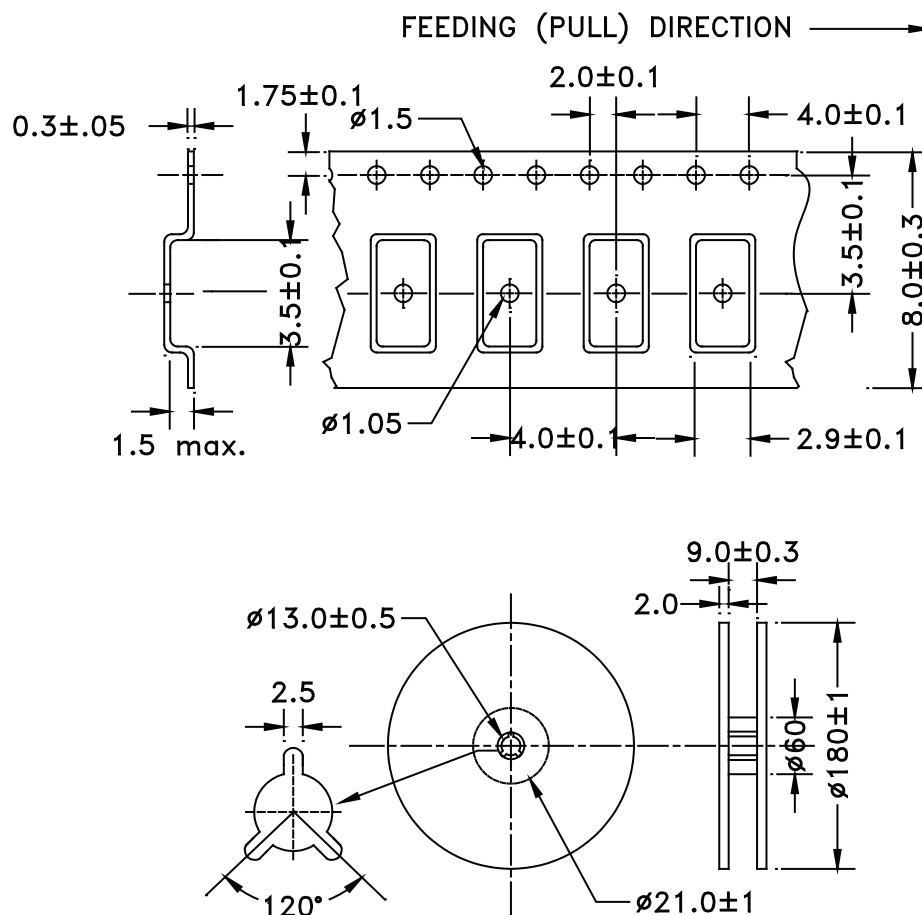
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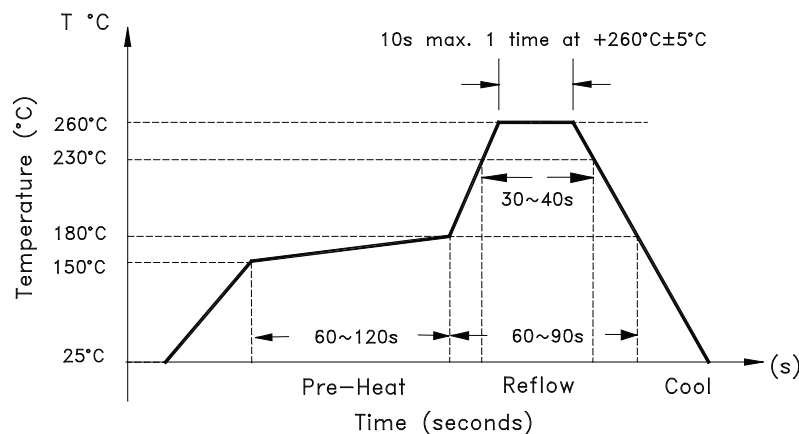
TAPE & REEL

1000pcs/reel



Dimensions: mm

REFLOW PROFILE



Need a test socket for the ABM8X Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, [click here](#). P/N **AXS-3225-04-01**

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