ULTRA MINIATURE CERAMIC PACKAGE HIGH STABILITY SMD CRYSTAL



3.2 x 2.5 x 0.6mm

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

(Pb)

- -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

RoHS/RoHS II Compliant

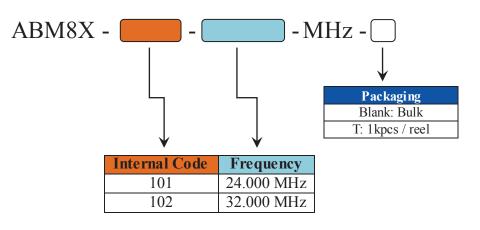
- Consumer Electronics
- PC Peripherals

STANDARD SPECIFICATIONS

ABM8X

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±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	μW	
Insulation Resistance	500			MΩ	@100Vdc±15V

Options and Part Identification (left blank if standard)



Example Part #:

ABM8X-101-24.000MHz-T









RoHS/RoHS II Compliant

Pb

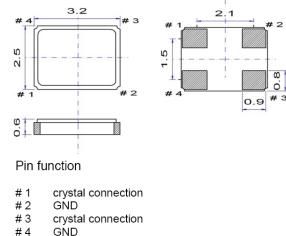
TAPE & REEL:

Top view

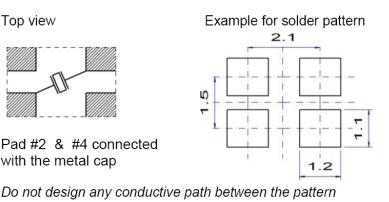




ABM8X



Pad #2 & #4 connected with the metal cap



Dimensions: mm

REFLOW PROFILE:

T°C 10s max. 1 time at +260°C±5°C 00 260°C 230°C Temperature 30~40s 180°C 150°C 60~90s 60~120s 25°C (s) Reflow Pre-Heat Cool Time (seconds)

1000pcs/reel FEEDING (PULL) DIRECTION -2.0±0.1 1.75±0.1 - 4.0±0.1 Ø1 5 0.3±.05 3.5±0. 8.0±0.3 5±0. ø1.05 2.9±0.1 4.0±0. 1.5 max. 9.0±0.3 2.0 ø13.0±0.5 2.5 80± 8000 ø21.0±1 120 Dimensions: mm



ABRACON IS ISO9001:2008

CERTIFIED

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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CORPORATION

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