# ULTRA MINIATURE CERAMIC PACKAGE HIGH STABILITY SMD CRYSTAL

# ABM8X





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

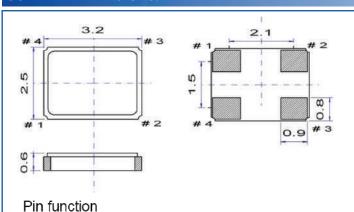
#### > APPLICATIONS:

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

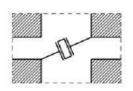
#### STANDARD SPECIFICATIONS

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±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			ΜΩ	@100Vdc±15V

## **OUTLINE DIMENSIONS:**

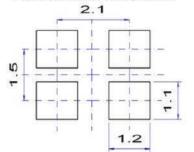


Top view



Pad #2 & #4 connected with the metal cap

Example for solder pattern



Do not design any conductive path between the pattern

# 1 crystal connection

#2 GND

#3 crystal connection

#4 GND

**Dimensions: mm** 



# ULTRA MINIATURE CERAMIC PACKAGE HIGH STABILITY SMD CRYSTAL

ABM8X

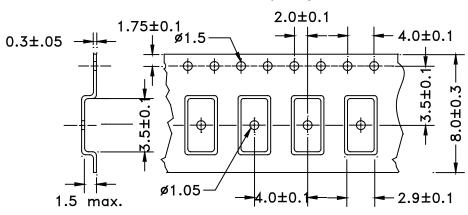


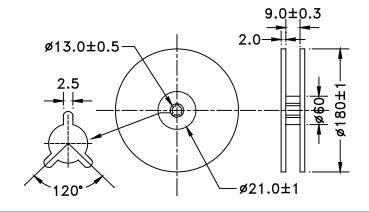


## **TAPE & REEL**

1000pcs/reel

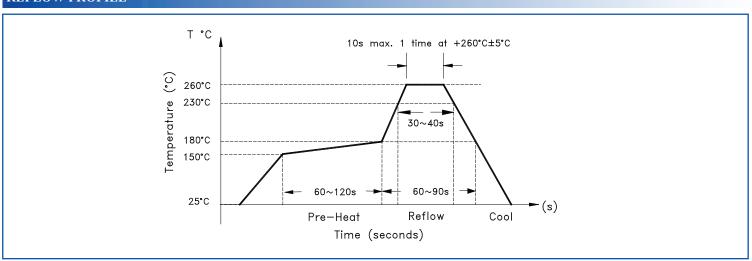
FEEDING (PULL) DIRECTION -----





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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