
 <b>ABRACON</b>	<b>ABM8-272-T3</b> <b>Ultra Miniature Ceramic</b> <b>SMD Crystal</b>	 <b>RoHS</b> Compliant
Date of Issue: Sept. 16 <sup>th</sup> , 2024	3.2 x 2.5 x 0.8mm	Application <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-safety
Page (2) of (9)	<b>Abraccon Drawing # 456603</b>	Revision #: B

### Features

- 3.2 x 2.5 x 0.8 mm miniature package
- Suitable for RoHS compliant reflow
- Wide Operating Temperature (-40°C to +85°C)

### Applications



- Crystal approved for use with Raspberry Pi 's RP2040 and RP235x range of microcontroller products

### Key Electrical Specifications

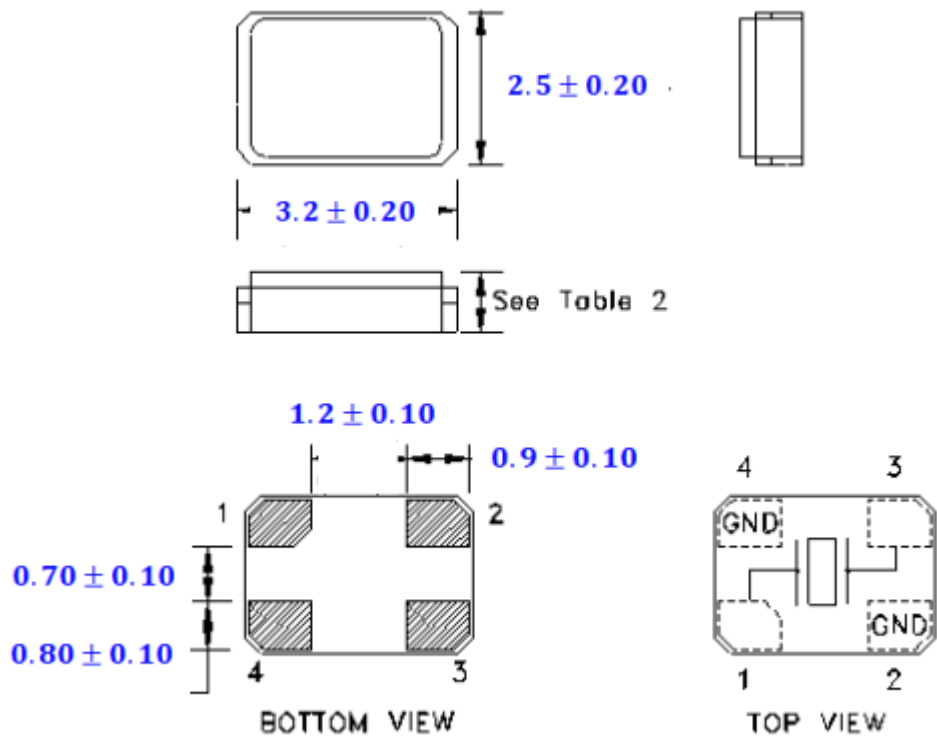
Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency	12.000			MHz	
Operation Mode	Fundamental-AT				
Operating Temperature	-40		+85	°C	
Storage Temperature	-55		+125	°C	
Frequency Tolerance at +25 °C	-30		+30	ppm	
Frequency Stability over the Operating Temperature ( ref. to +25°C)	-30		+30	ppm	
Equivalent series resistance (R1)			50	Ω	
Shunt Capacitance (C0)			3.0	pF	
Load capacitance (CL)	10			pF	
Drive Level		10	200	μW	
Aging	-5		+5	ppm	@25±3°C, 1st year
Insulation Resistance	500			MΩ	@100Vdc±15V

**ABM8-272-T3 is RoHS/RoHS II Compliant and Pb free**

**Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = 1**

 <b>ABRACON</b>	<b>ABM8-272-T3</b> Ultra Miniature Ceramic SMD Crystal	 <b>RoHS</b> Compliant
Date of Issue: Sept. 16 <sup>th</sup> , 2024	3.2 x 2.5 x 0.8mm	Application <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-safety
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Mechanical Dimensions

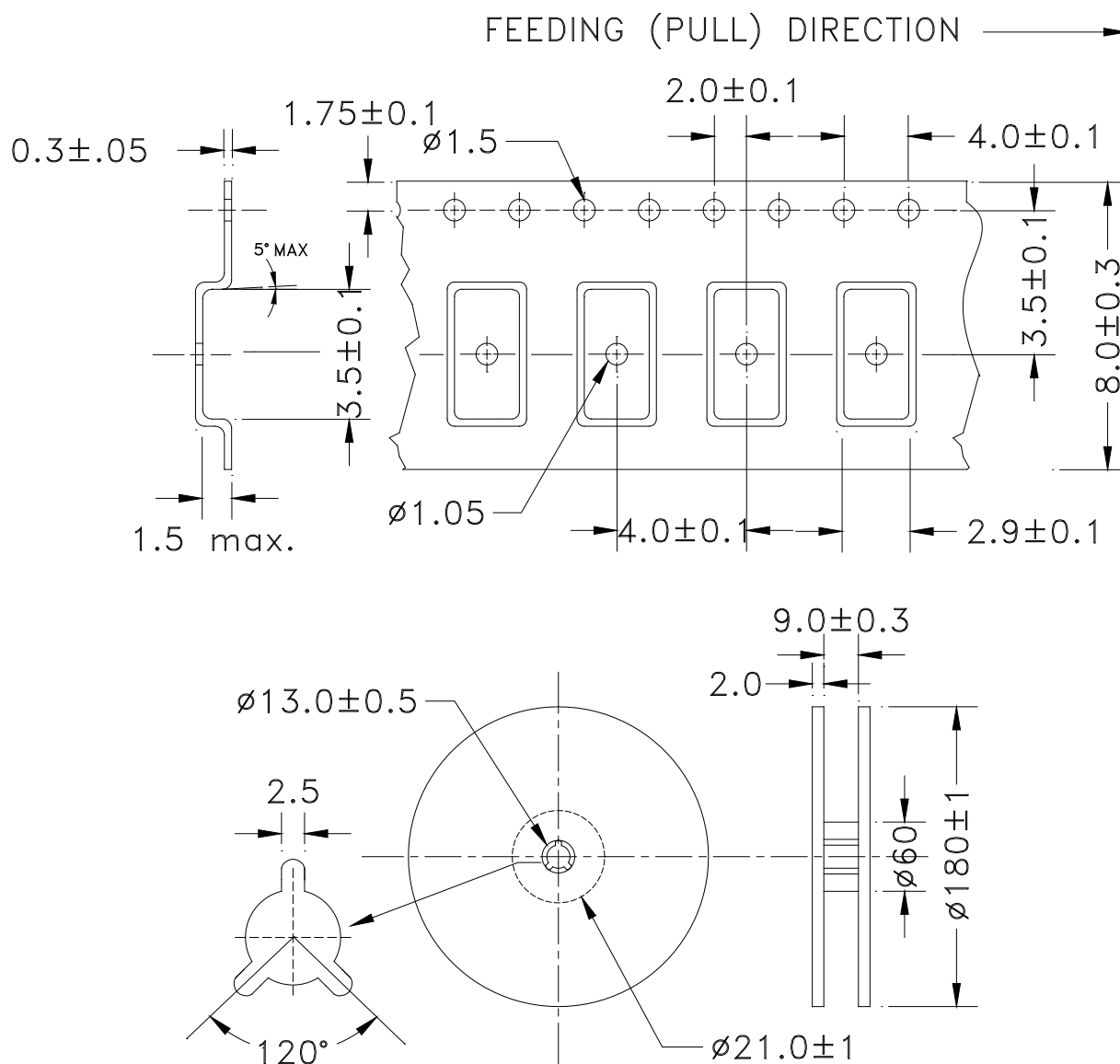


Note: Due to material availability, the chamfer could be located on pin #1, 3, or 4. Be advised that the chamfer location has no impact on the electrical performance of the device.

Dimensions: mm

**Packaging:**

Tape and Reel (3,000pcs/reel)


**Dimensions: mm**

# Mouser Electronics

Authorized Distributor

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