Ultra Miniature Ceramic SMD Crystal

ABM10-165-38.400MHz-T3





2.5 x 2.0 x 0.5 mm

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

FEATURES:

- Low profile, miniature size: 2.5 x 2.0 x 0.5mm SMD
- RoHS compliant
- Overall frequency stability: ±20ppm over -30 ~ +85°C
- · Low aging

> APPLICATIONS:

- Decawave DW1000 (IEEE802.15.4-2011 UWB)
- UWB applications
- Real Time Location Systems
- · Wireless Sensor Networks

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency		38.400	_	MHz	
Operation Mode	Fundamental				
Operating Temperature	-30		+85	°C	
Storage Temperature	-40		+85	°C	
Overall Frequency Stability	-20		+20	ppm	See Note 1
Initial Calibration + Frequency Stability over the Operating Temperature	-15		+20	ppm	See Note 2
Frequency Shift vs Reflow + Aging	-5		0	ppm	See Note 3
Frequency Perturbations			1	ppm	See Note 4
Long-term Stability	-1		+1	ppm	See Note 5
Equivalent Series Resistance (ESR)			40	Ω	
Load Capacitance (CL)		10	-	pF	
Drive Level			50	μW	
Insulation Resistance	500			ΜΩ	@100V±15V, 25°C

Note:

- 1. Including initial calibration, reflow, frequency verses temperature and 5-years aging at 25°C.
- 2. Referenced to nominal frequency at specified load capacitance over the operating temperature range.
- 3. Two consecutive reflow as per the profile in Section 6.1 after 24 hours recovery at 25°C. Frequency drift over 5 years at 25°C.
- 4. Peak-to-peak deviation from the frequency vs. temperature curve fit 5th order. Minimum of 1 frequency reading every 3°C over operating temperature range.
- 5. Frequency drift over 1 year at 25°C.

OPTIONS & PART IDENTIFICATION: (Left blank if standard)







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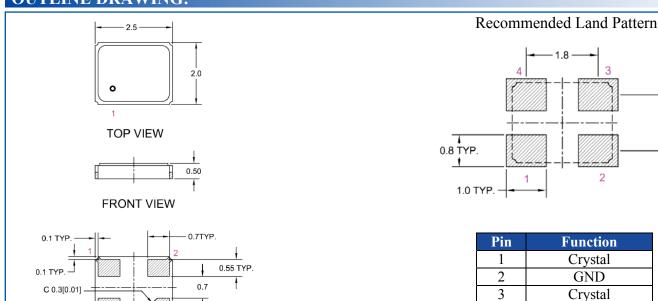




2.5 x 2.0 x 0.5 mm

1.4

> OUTLINE DRAWING:



Dimensions: mm

GND

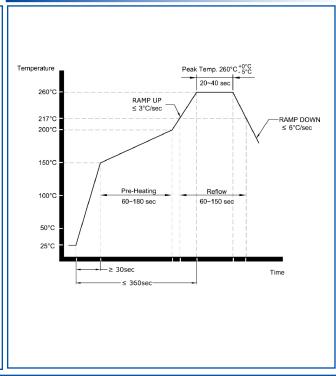
> TAPE & REEL:

BOTTOM VIEW

Packaging: 3000pcs/reel 2.00 4.0 PIN 1 91.5 1.75±0.1 1.75±0.

REFLOW PROFILE:

4





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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