IoT OPTIMIZED LOW PROFILE QUARTZ CRYSTAL

ABM11W-101-32.0000MHZ-T3

FEATURES

- Optimized for energy saving wearables, and IoT applications
- 0.5 mm max height ideally suited for height constrained designs
- Seam sealed for longterm reliability

2.0 x 1.6 x 0.5mmRoHS/RoHS II CompliantMSL = N/A: NOT APPLICABLE

APPLICATIONS

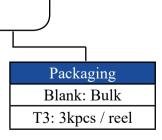
- Wearables
- Internet of Things (IoT)
- Bluetooth/Bluetooth Low Energy (BLE)
- Wireless modules
- Machine-to-machine (M2M) connectivity
- Ultra-low power MCU
- Near Field Communication (NFC)
- ISM Band

KEY ELECTRICAL SPECIFICATIONS

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency		32.0000		MHz	
Operation Mode	Fundamental				
Operating Temperature Range	-40		+85	°C	
Storage Temperature	-55		+125	°C	
Frequency Tolerance @ +25°C	-10		+10	ppm	
Frequency Stability over the Operating Temperature (ref. to +25°C)	-20		+20	ppm	
Equivalent series resistance (R1)			80	Ω	
Shunt capacitance (C0)		<1.0	2.0	pF	
Load capacitance (CL)		8.0		pF	
Drive Level		10	100	μW	
Aging (1 year)	-2		+2	ppm	@ 25°C±3°C
Insulation Resistance	500			MΩ	$ (a) 100 \text{Vdc} \pm 15 \text{V} $

PART IDENTIFICATION

ABM11W-101-32.0000MHz -





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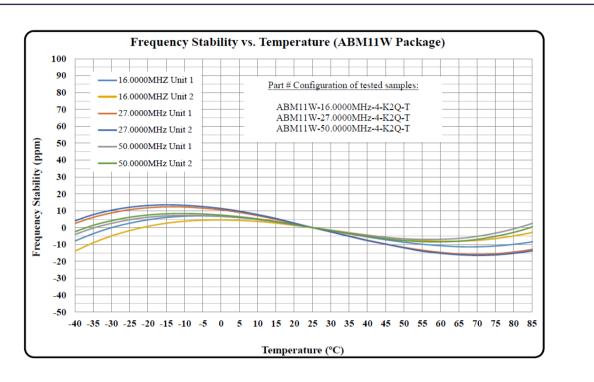
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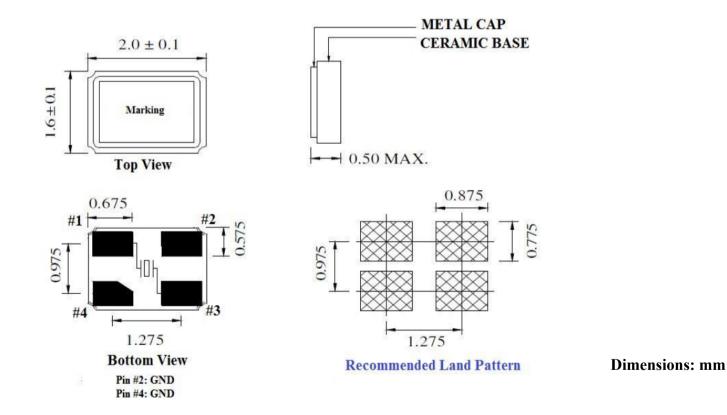


MSL = N/A: NOT APPLICABLE

TYPICAL FREQUENCY vs. TEMPERATURE CHARACTERISTICS



MECHANICAL DIMENSIONS



Note:

Due to material availability the Chamfer could be located on pin #1, 2 or 4. Be advised that the Chamfer location has no impact on the electrical performance of the device.

SEALING METHOD = GLASS SEALING



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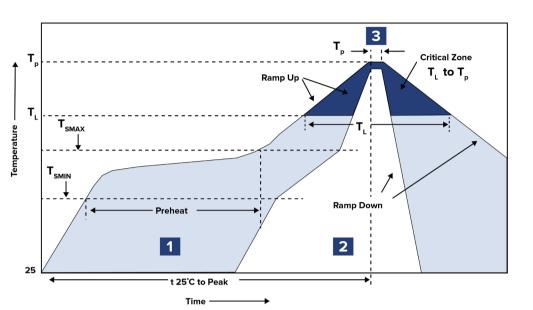
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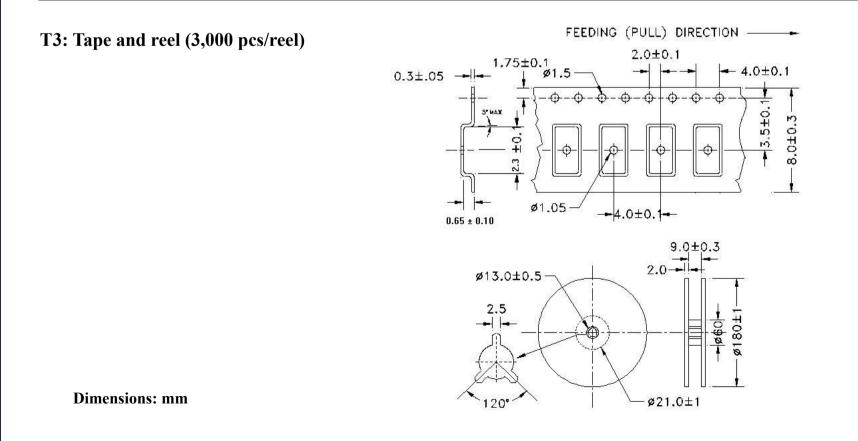


REFLOW PROFILE



Zone	Description	Temperature	Time
1	Preheat	$\begin{array}{c} T_{_{SMIN}} \sim T_{_{SMAX}} \\ 150^{\circ}\mathrm{C} \sim 180^{\circ}\mathrm{C} \end{array}$	$60 \sim 120$ sec.
2	Reflow	Т _L 217°С	$45 \sim 90$ sec.
3	Peak Heat	T _P 260°C MAX	10 sec.

PACKAGING:





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