IoT OPTIMIZED LOW PROFILE QUARTZ CRYSTAL

ABM11-141-26.000MHz

2.0 x 1.6 x 0.50 mm

RoHS/RoHS II Compliant

MSL = N/A: NOT APPLICABLE (See Note #1)

FEATURES

- Optimized for low power consumption, wearables, and IoT applications
- Guaranteed low 40Ω ESR ensures operation in power sensitive solutions
- 0.50mm max height ideally suited for height constrained designs
- -40°C to 85°C industrial operating temperature range
- Seam sealed for long-term reliability

APPLICATIONS

- Wearables
- Internet of Things (IoT)/Industrial (IIoT)
- Bluetooth/Bluetooth Low Energy (BLE)
- Wireless modules
- Machine-to-machine (M2M) connectivity
- Ultra-low power MCU
- WiFi

STANDARD SPECIFICATIONS

PARAMETERS	MINIMUM	TYPICAL	MAXIMUM	UNITS	NOTES
Frequency		26.000		MHz	
Operation Mode		Fundamental			
Operating Temperature	-40		+85	ºC	
Storage Temperature	-40		+125	ºC	
Frequency Tolerance @+25°C	-10		+10	ppm	See Note#1
Frequency Stability over the Operating Temperature (ref. to +25°C)	-30		+30	ppm	See Note#2
Equivalent series resistance (R1)			40	Ω	
Shunt capacitance (C0)			2	pF	
Load capacitance (CL)		8		pF	
Drive Level		10	100	µW	
Aging@25°C±3°C			±3	ppm	First year
Insulation Resistance	500			MΩ	@ 100Vdc ± 15V

Note#1: Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive
Note#2: Referenced to crystal resonant frequency, into an oscillator loop effective load of 8pF
Note#3: Referenced to the measured frequency at 25°C±3°C, into an oscillator loop effective load of 8pF

REVISED: 06/21/2016

ABRACON LLC
The Power of Linking Together
5101 Hidden Creek Lane Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sale visit:
www.abracon.com

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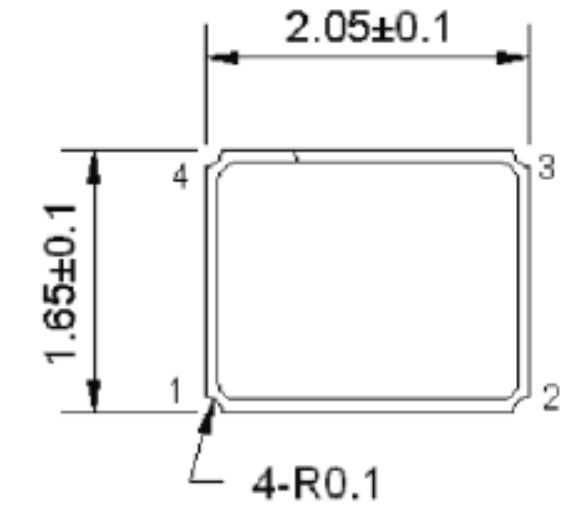
PART IDENTIFICATION AND ORDERING INFORMATION

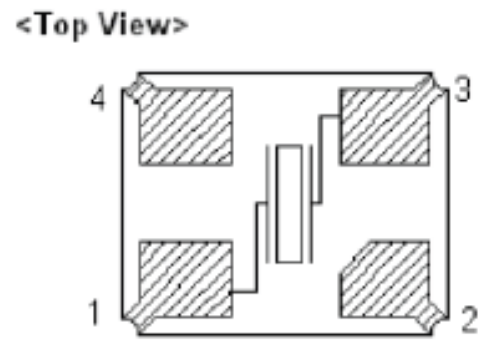
ABM11-141-26.000MHZ-▢

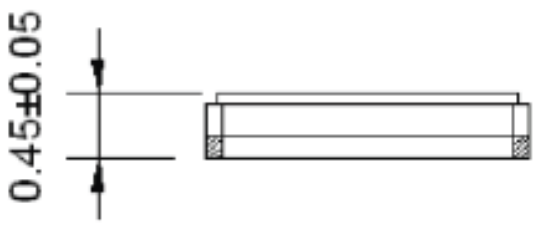
PACKAGING
Blank: Bulk
T3: 3K/Reel

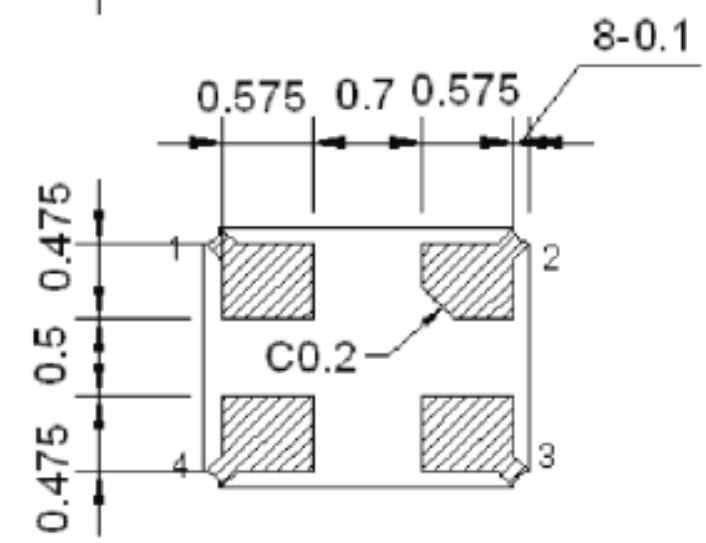
MECHANICAL DIMENSIONS (ALL DIMENSIONS ARE IN MM)

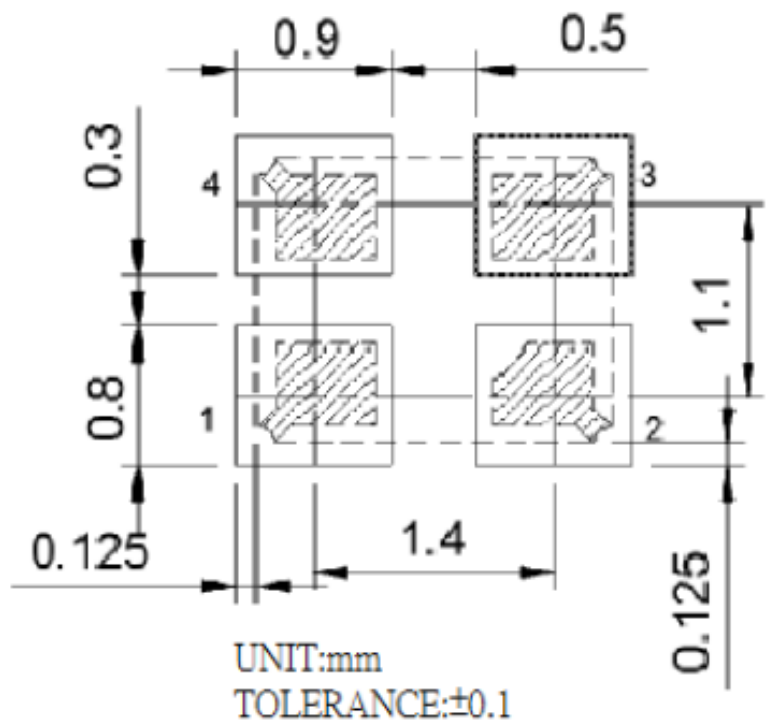


RECOMMENDED LAND PATTERN









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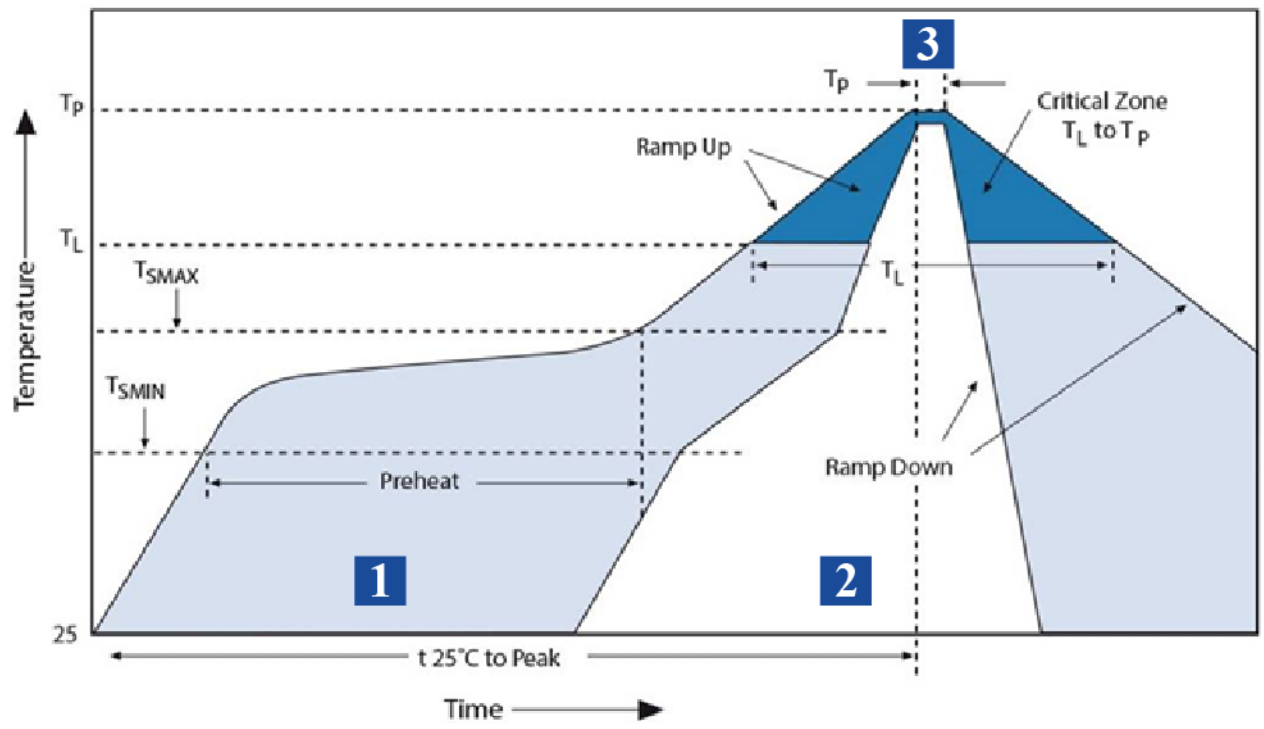
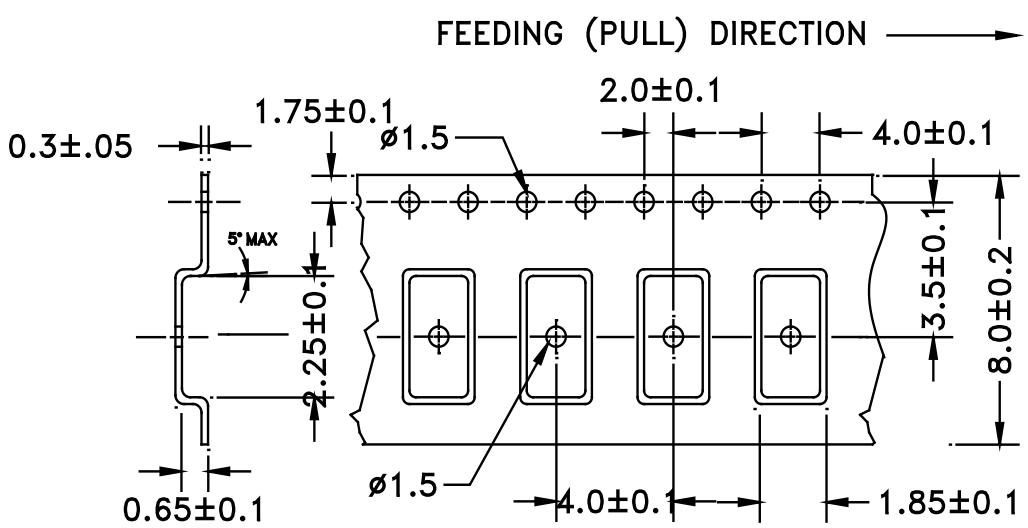
REFLOW PROFILE

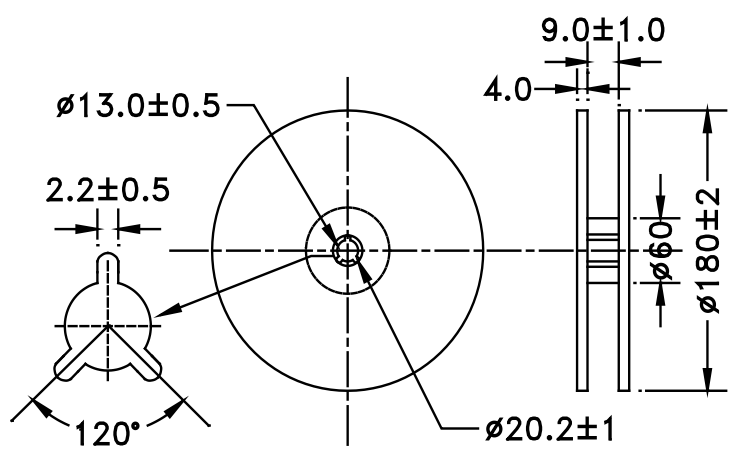


Zone	Description	Temperature	Time
1	Preheat	T_{SMIN} - T_{SMAX} 160°C~180°C	120 sec.
2	Reflow	T_L 60°C	60 sec.
3	Peak Heat	T_P 260°C	10 sec. MAX

PACKAGING

T3: 3000PCS/REEL





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