IoT OPTIMIZED LOW PROFILE QUARTZ CRYSTAL



ABM11-140-26.000MHz

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
- Seam sealed for long-term reliability

APPLICATIONS

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

STANDARD SPECIFICATIONS

PARAMETERS	MINIMUM	TYPICAL	MAXIMUM	UNITS	NOTES
Frequency		26.000		MHz	
Operation Mode		Fundamental			
Operating Temperature	-20		+70	ºC	
Storage Temperature	-40		+125	ºC	
Frequency Tolerance @+25°C	-10		+10	ppm	See Note#2
Frequency Stability over the Operating Temperature (ref. to +25°C)	-10		+10	ppm	See Note#3
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 please visit:
www.abracon.com

ABRACON IS ISO9001-2008 CERTIFIED

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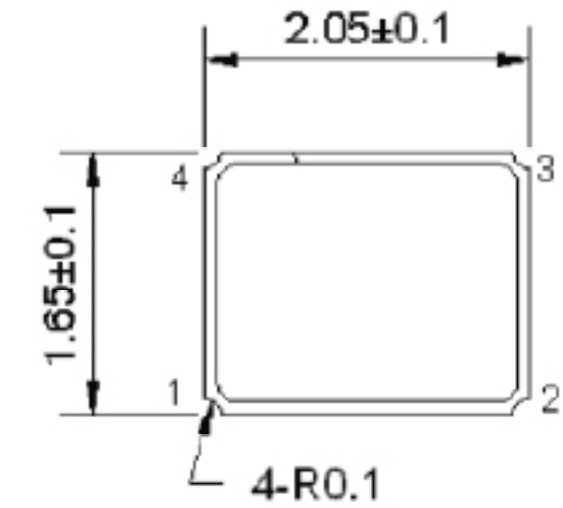
MSL = N/A: NOT APPLICABLE (See Note #1)

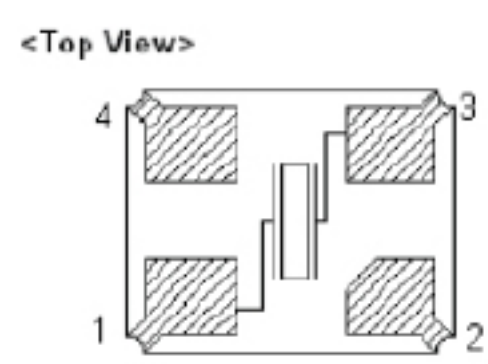
PART IDENTIFICATION AND ORDERING INFORMATION

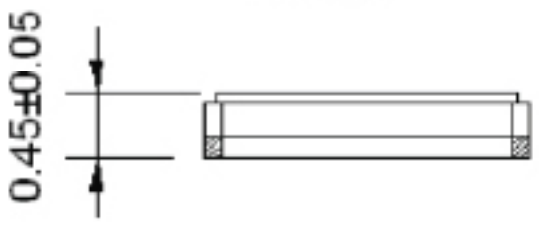
ABM11-140-26.000MHz-▢

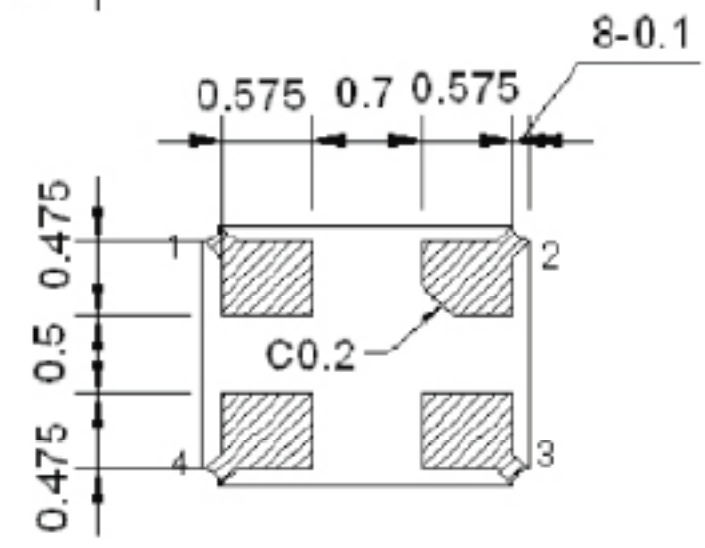
PACKAGING
Blank: Bulk
T3: 3K/Reel

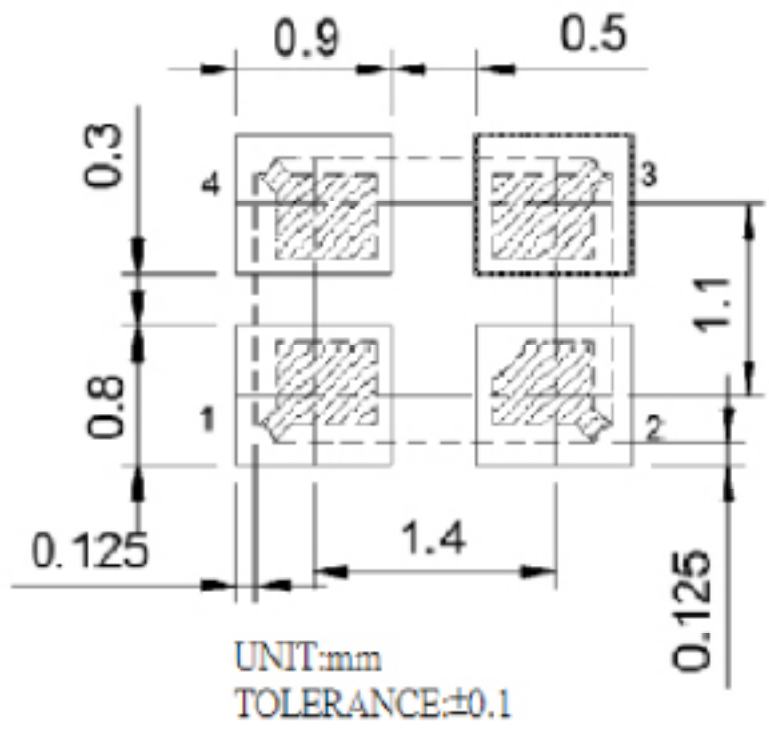
MECHANICAL DIMENSIONS (ALL DIMENSIONS ARE IN mm)











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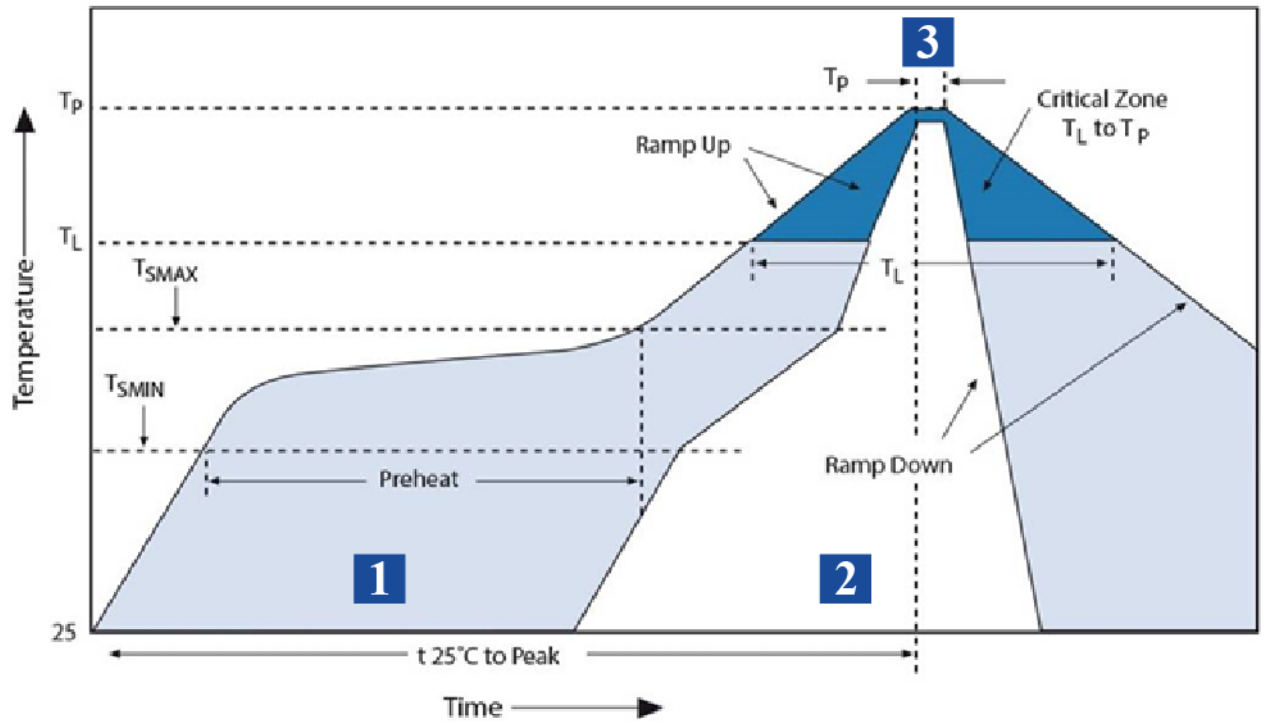
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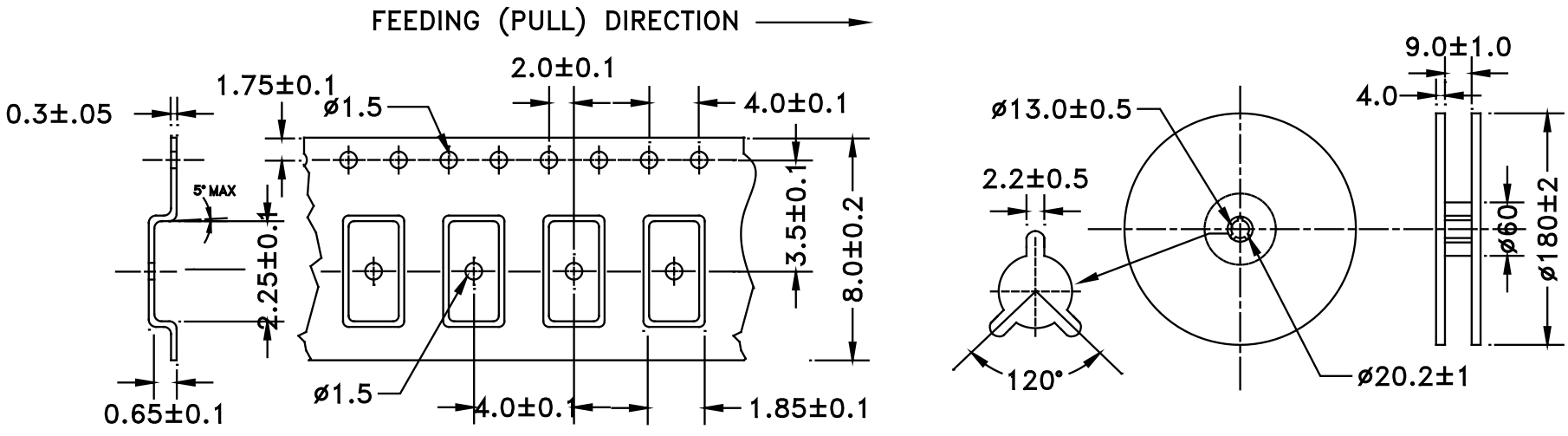
REFLOW PROFILE



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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ATX-11-F-27.000MHZ-F05-T ABLSG-24.000MHz-D-2-Y-T ABM8AIG-24.000MHZ-12-2Z-T3
ACML-0402HC-301-T ASPI-F1010-4R7M-T ASPIAIG-Q1060-1R0M-T ASV-125.000MHZ-EC-T
FC5BAEEMM8.0-T1 ABM11W-16.0000MHZ-8-K1Z-T3 AMPLA5030Q-4R7MT ASEMB-100.000MHZ-LY-T
ASPIAIG-F1040-R36M-T ATCA-07-101M-H AISC-1008F-100G-T AMPMAFB-27.0000T
ASCO-50.000MHz-E-K-T3 ABM8-27.000MHZ-B2-T ABM8G-24.000MHz-4-Y-T3 ACHL-25.000MHZ-EK
AMDLA4010S-2R2MT AMPMGFB-25.0000T ASPI-M3015-2R2M-T ABM8-24.000MHZ-D4Y-T
ABLS-16.000MHZ-D4-T ABM8G-16.000MHz-4-Y-T3 ABMM2-10.000MHZ-E2-T