

Automotive & Industrial Grade Ceramic SMD Miniature Crystal



5.0 X 3.2 X 0.9mm

ABM3BAIG

Pb | **RoHS/RoHS II Compliant**

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

FEATURES:

- AEC-Q200 qualified
- Seam sealed ceramic package assures high precision and reliability
- Extended temperature -40°C to +125°C for automotive/industrial applications
- Suitable for RoHS reflow profile
- 100 times drop test from 150cm, suitable for keyless entry application

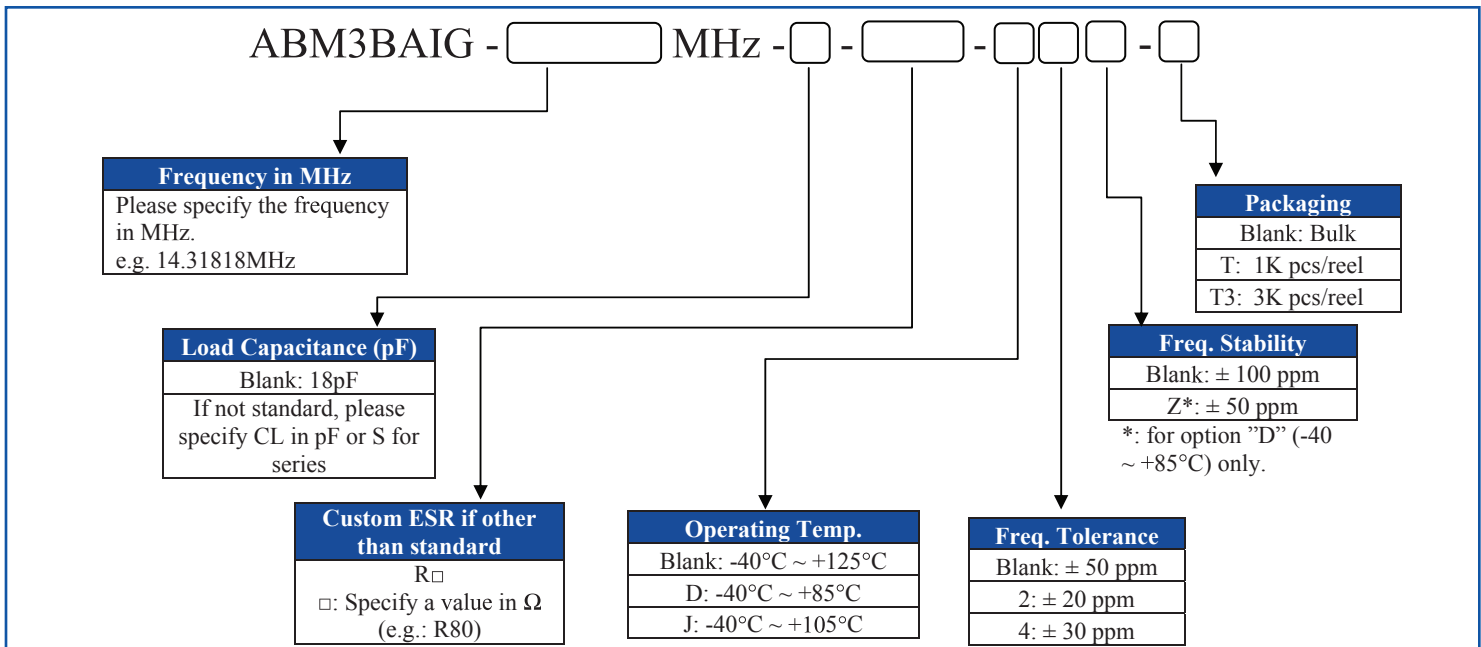
APPLICATIONS:

- Automotive electronics
- Industrial electronics

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	12.000		54.000	MHz	
Operation Mode	Fundamental, AT-cut				
Operating Temperature	-40		+125	°C	See options
Storage Temperature	-40		+125	°C	
Frequency Tolerance @+25°C	-50		+50	ppm	See options
Frequency Stability over the Operating Temperature (ref. to +25°C)	-100		+100	ppm	Please contact Abracon for the availability of ±50ppm Frequency stability
Equivalent series resistance (R1)			70	Ω	12.000 – 15.999MHz
			50		16.000 – 54.000MHz
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)		18		pF	Standard (See options if other than STD)
Drive Level		10	100	μW	
Aging	-3		+3	ppm	@25°C±3°C First year
Insulation Resistance	500			MΩ	@ 100Vdc ± 15V

OPTIONS AND PART IDENTIFICATION:



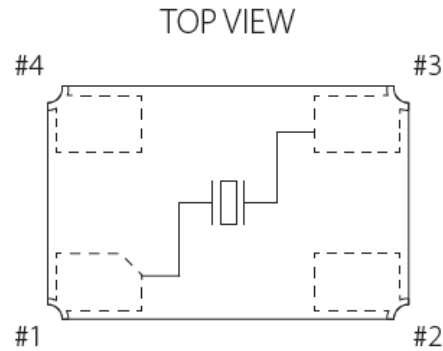
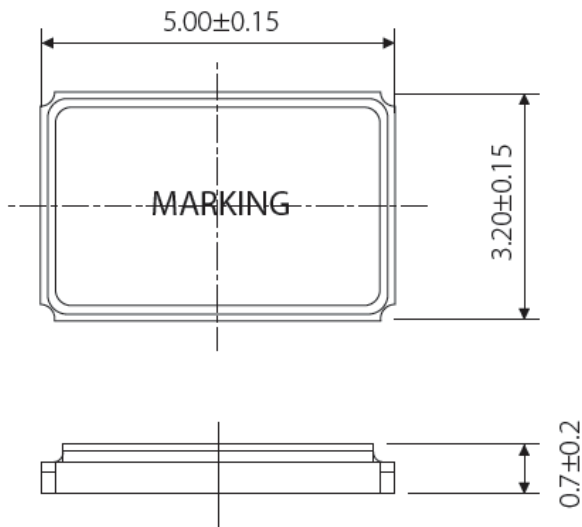


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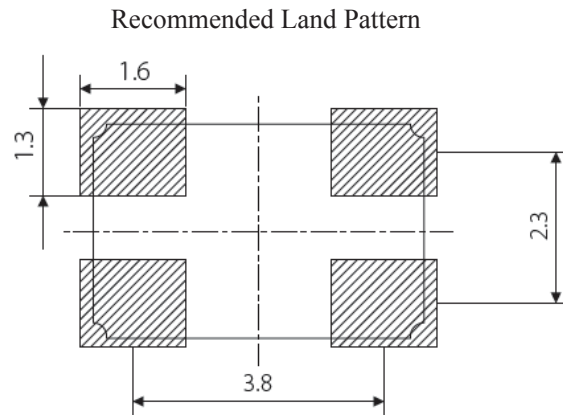
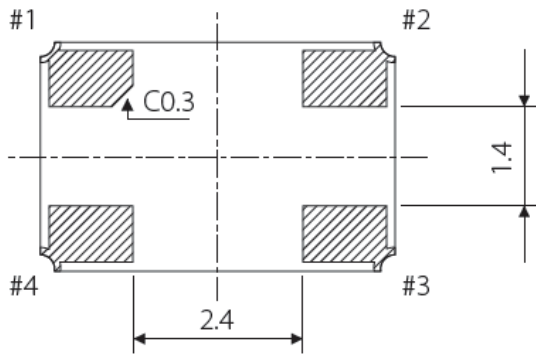
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OUTLINE DIMENSIONS:

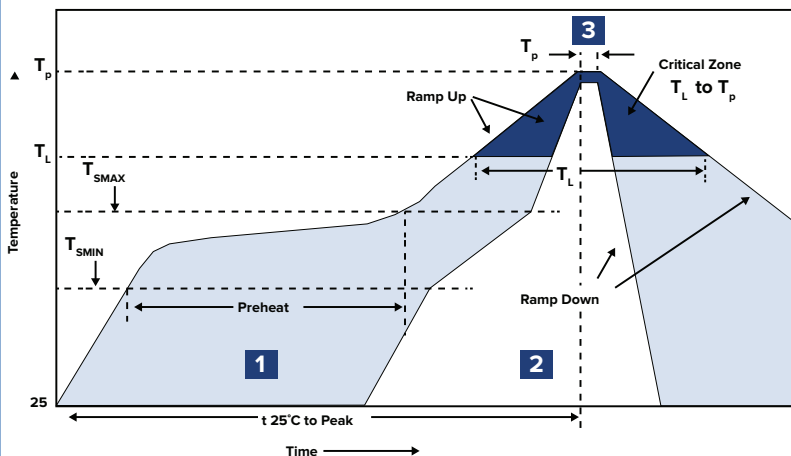


- #1,#3 : Crystal terminal
- #2,#4 : Connected to cover
(Please connect it with GND.)



Dimensions: mm

REFLOW PROFILE:



Zone	Description	Temperature	Time
1	Preheat / Soak	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 180°C	60 ~ 120 sec.
2	Reflow	T_L 230°C	30 ~ 40 sec.
3	Peak heat	T_P 260°C±5°C	10 sec. MAX



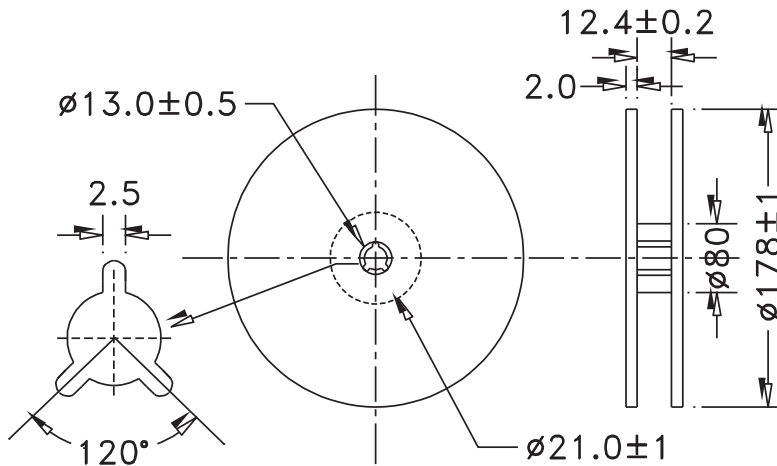
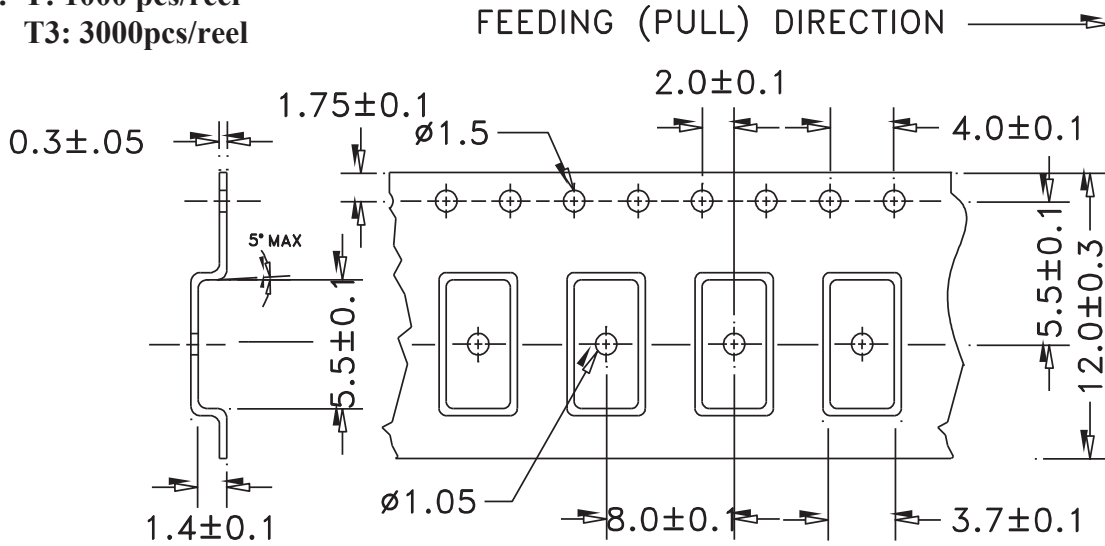
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TAPE & REEL:

**Packaging: T: 1000 pcs/reel
T3: 3000pcs/reel**



Dimensions: mm

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