

ULTRA MINIATURE CERAMIC SMD CRYSTAL

ABM8-166-114.285MHz-T



RoHS/RoHS II Compliant



3.2 x 2.5 x 0.75mm

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

FEATURES:

- Low in height; suitable for thin equipment, 0.75mm max
- Seam sealed package assures high reliability
- Suitable for RoHS reflow

APPLICATIONS:

- For use with SiLab Part Number Si5316

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency		114.285		MHz	
Operation Mode	3 rd OT, AT-Cut				
Operating Temperature	-40		+85	°C	
Storage Temperature	-55		+125	°C	
Frequency Tolerance	-20		+20	ppm	
Frequency Stability over the Operating Temperature (ref. to +25°C)	-20		+20	ppm	
Equivalent series resistance (R1)			62	Ω	
Shunt capacitance (C0)			1.80	pF	
Load capacitance (CL)		18		pF	
Drive Level		10	100	μW	
Aging @25±3°C	-2		+2	ppm	First year
Insulation Resistance	500			MΩ	@100Vdc±15V

FREQUENCY PERTURBATION OVER TEMPERATURE

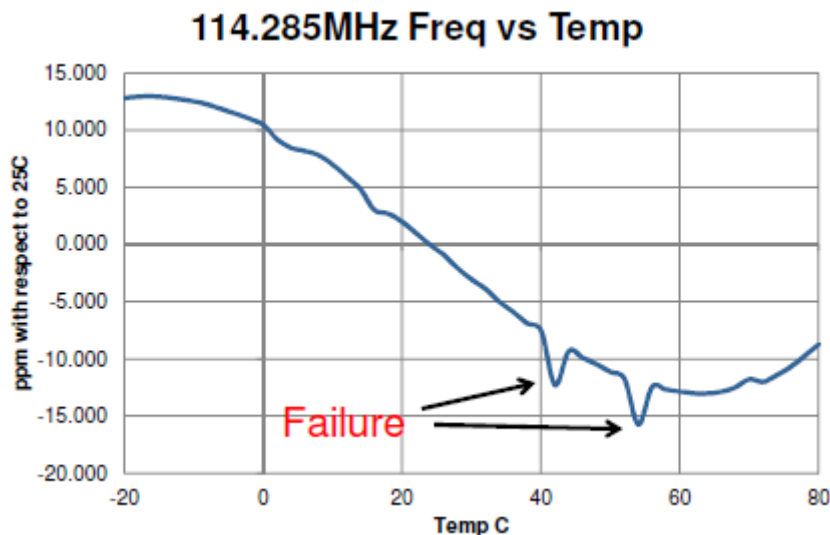


Figure (1)

These Crystals will not exhibit an abrupt change in ESR or frequency, such as caused by Spurious Mode Interference, as shown in figure (1) above. The ABM8-166-114.285MHz-T crystals are optimized to eliminate these abrupt changes, whether as a function of design and/or screening over temperature.

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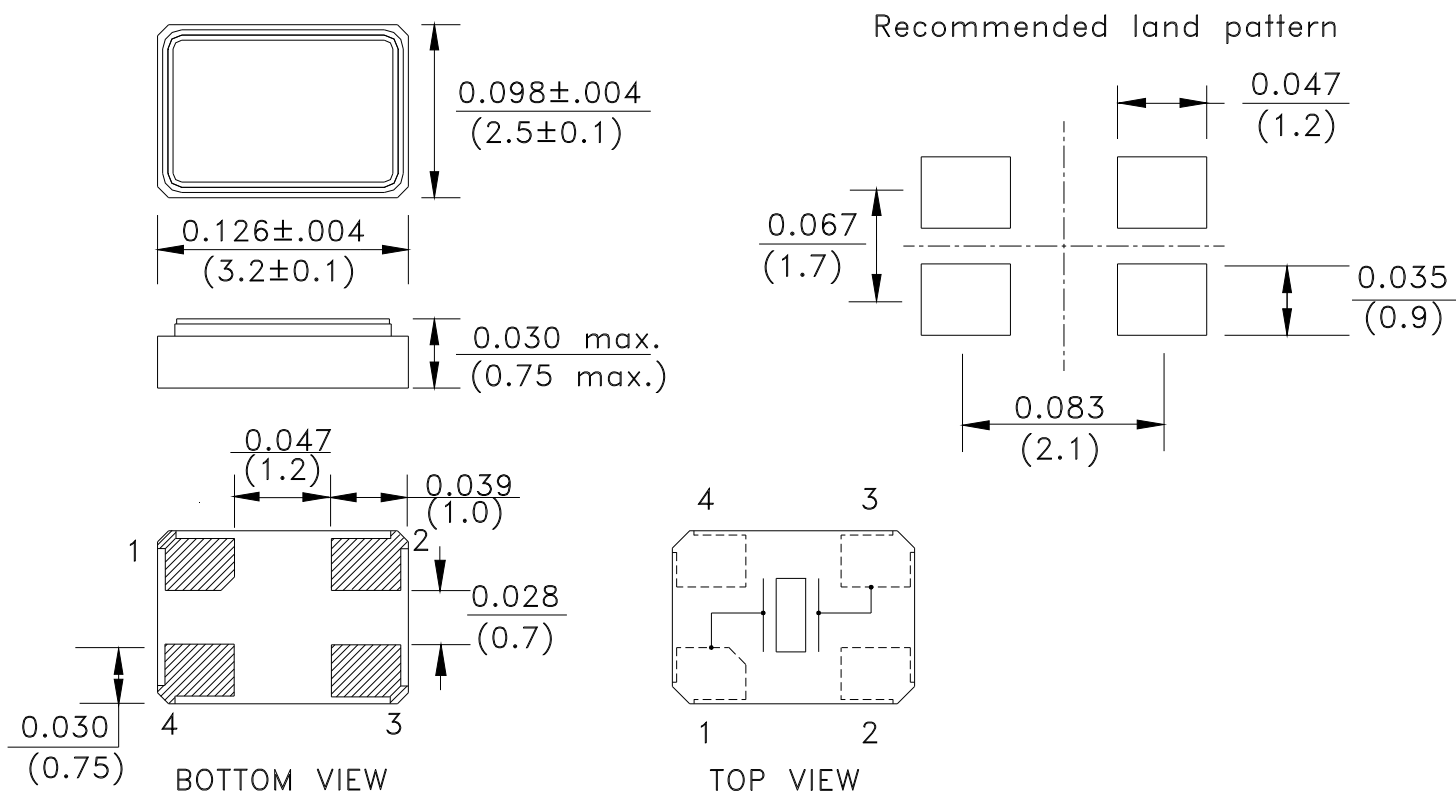


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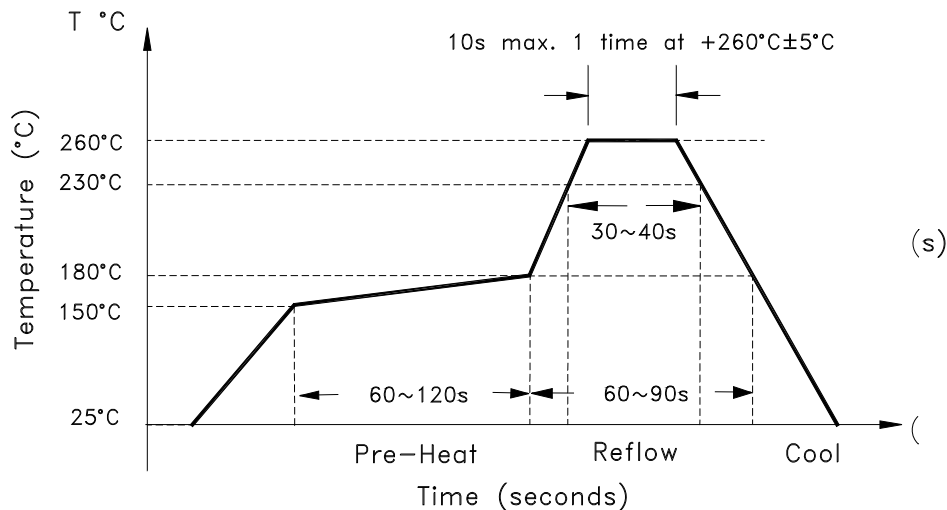
3.2 x 2.5 x 0.75mm

OUTLINE DRAWING:



Dimensions: inches (mm)

REFLOW PROFILE:

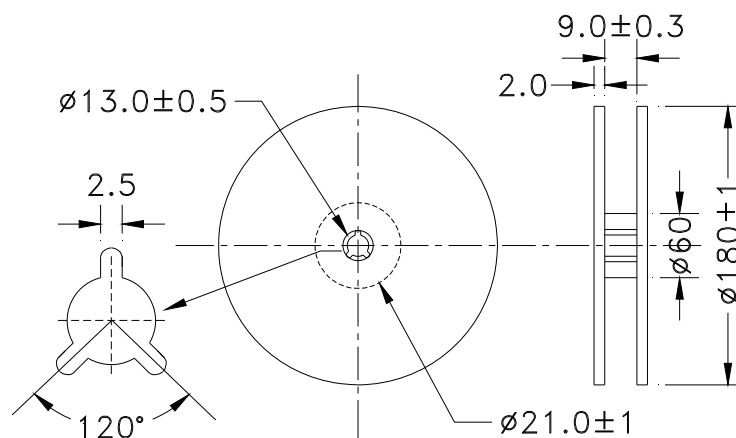


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▶ **TAPE & REEL:**

Technical drawing of a rectangular plate with the following dimensions and features:

- Overall Dimensions:**
 - Length: 8.0 ± 0.3
 - Width: 4.0 ± 0.1
- Feeding (Pull) Direction:** Indicated by an arrow pointing to the right.
- Top Edge Features:**
 - Left corner radius: 0.3 ± 0.05
 - Top edge thickness: 1.75 ± 0.1
 - Top edge chamfer: 1.5
- Bottom Edge Features:**
 - Bottom edge thickness: 3.5 ± 0.1
 - Bottom edge chamfer: 1.5 max.
- Internal Features:**
 - Four rectangular slots, each with a width of 1.05 and a length of 4.0 ± 0.1 .
 - Four circular holes, each with a diameter of $\phi 1.5$ and a center-to-center distance of 2.9 ± 0.1 .



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