

MHz CYLINDRICAL TYPE MICROPROCESSOR CRYSTAL

AB308R



RoHS
Compliant



8.8 x 3.2

FEATURES:

- Cylindrical MHz frequency crystals.
- IR Reflow capable.

APPLICATIONS:

- Consumer electronics
- Microprocessor clocks.
- Ideal for low cost SMD applications.

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N	AB308R Series
Frequency	4.001 MHz to 70 MHz
Operation Mode	4.001MHz - 32.0 MHz (Fundamental) 30.00 MHz - 70.0MHz (Third-Overtone)
Operating Temperature	-10°C to + 60°C (see options)
Storage Temperature	- 40°C to + 85°C
Frequency Tolerance	± 30 ppm max. (see options)
Frequency Stability	± 50 ppm max. (see options)
Equivalent Series Resistance	See Table 1
Shunt Capacitance C_0	5pF max.
Load Capacitance C_L	16pF (see options)
Drive Level	100μW max.
Aging at 25°C (Fist year)	± 5ppm max.
Insulation Resistance	500 MΩ min at 100Vdc ± 15V

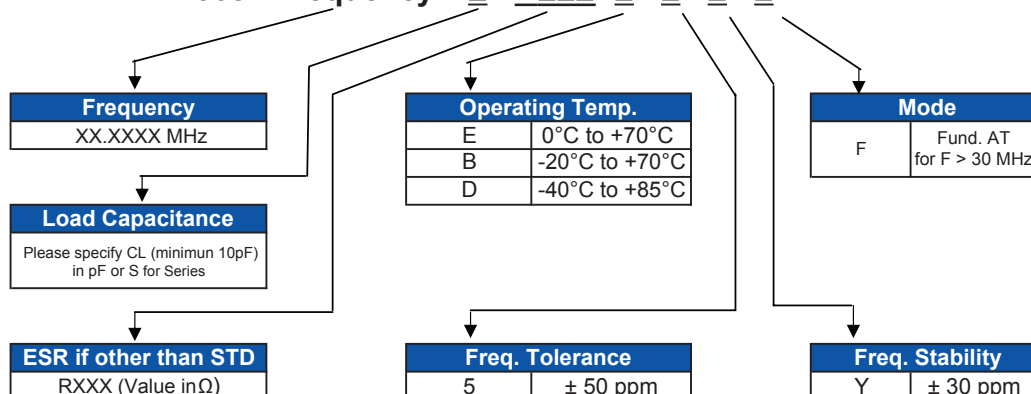
TABLE 1: STANDARD ESR

FREQUENCY (MHz)	ESR (Ω) max.
4.000 - 5.999	150
6.000 - 9.999	100
10.000 - 32.000	50
30.000 - 35.99 (3rd OT)	100
36.00 - 70.00 (3rd OT)	80

OPTIONS AND PART IDENTIFICATION:

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AB308 - Frequency - - R - - - -



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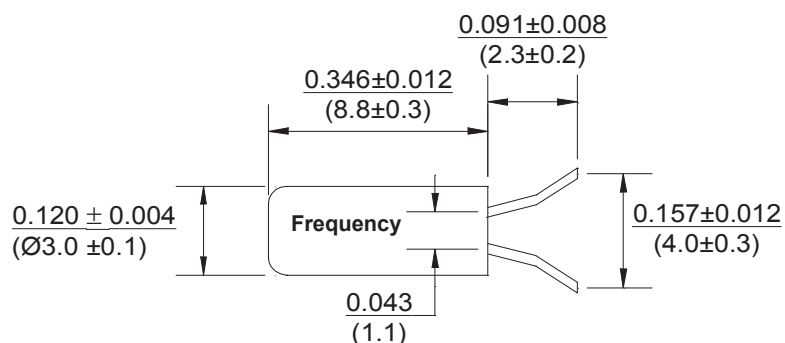
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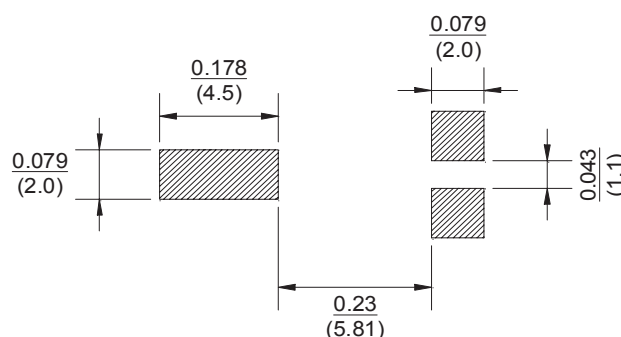
8.8 x 3.2

OUTLINE DRAWING:

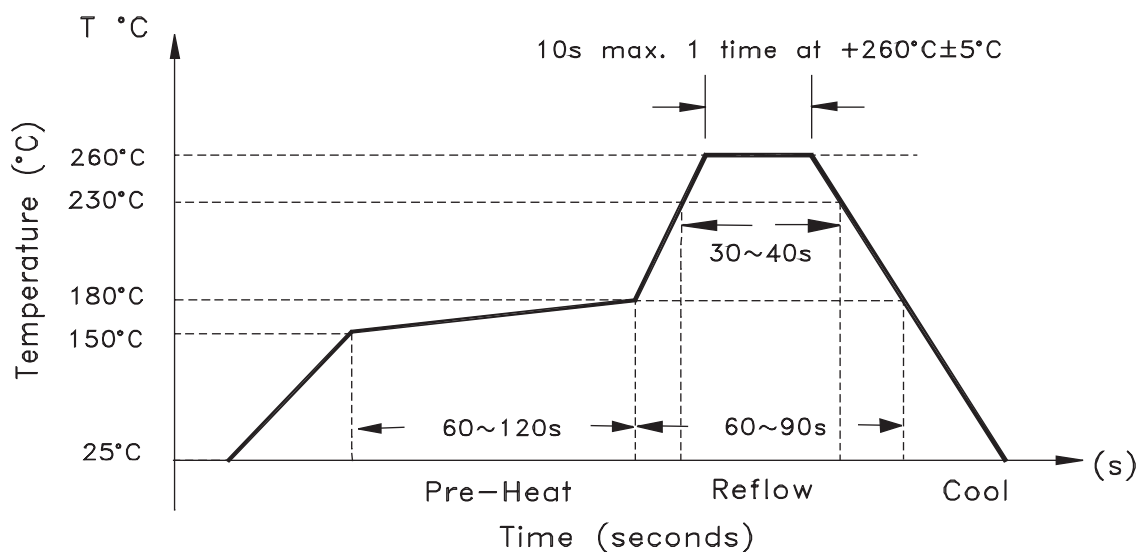
Dimensions: Inches/(mm)



Recommended land pattern



REFLOW PROFILE:



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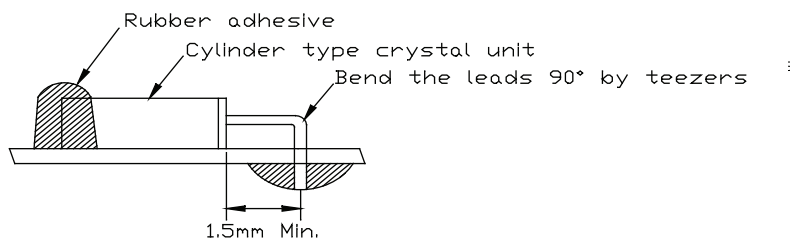


8.8 x ϕ 3.2

HANDLING INSTRUCTIONS

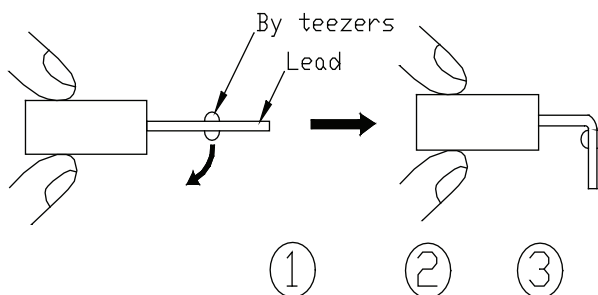
Mounting:

(1) Soldering on the body of the cylinder type crystal unit must be strictly avoided due to deteriorate the characteristics or damage the products. Rubber adhesive is recommended.



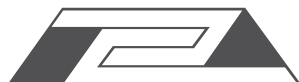
(2) When the leads need to be bent by hand, follow the instructions below.

- Hold the body of the Cylinder type crystal unit in fingers.
- Pick at the part with tweezers, which you intend to bend. There should be more than 1.5mm (3.0mm is recommendable) from the body case.
- Bend the lead 90° by tweezers without pulling the lead strongly. Pulling the leads forcefully may cause cracks in the glass hermetic seal resulting in component failure.



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ABRACON IS
ISO9001:2008
CERTIFIED



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