

HIGH FREQUENCY CYLINDRICAL TYPE MICROPROCESSOR CRYSTAL

AB308

AB308

8.8 x 3.2



RoHS
Compliant

FEATURES:

- High stability by tight vacuum sealing
- Miniature high frequency cylinder type crystal

APPLICATIONS:

- Suitable for wide range of application
- Clocks for microprocessor
- Consumer electronics
- Test equipment
- Computer peripherals

STANDARD SPECIFICATIONS:

| Parameters | Minimum | Typical | Maximum | Units | Notes |
|---|---|---------|---------|-------|---------------------------------|
| Frequency Range | 4.001 | | 26.999 | MHz | Fundamental (std.) |
| | 27.000 | | 70.000 | | 3 rd Overtone (std.) |
| | 27.000 | | 34.000 | | Fundamental (see options) |
| Operation Mode | Fundamental or 3 rd Overtone | | | | |
| Operating Temperature | -10 | | +60 | °C | See options |
| Storage Temperature | -40 | | +85 | °C | |
| Frequency Tolerance @+25 °C | | | ±30 | ppm | See options |
| Frequency Stability over the Operating Temperature (ref. to +25 °C) | | | ±50 | ppm | See options |
| Equivalent series resistance (R1) | See table 1 below | | | Ω | |
| Shunt capacitance (C0) | | | 5 | pF | |
| Load capacitance (CL) | 16 std. | | | pF | See options |
| Drive Level | | | 100 | μW | |
| Aging@25°C±3°C | | | ±5 | ppm | First year |
| Insulation Resistance | 500 | | | MΩ | @ 100 Vdc ± 15V |

Table 1 – standard ESR

| Frequency (MHz) | ESR(Ω) max. | Operation Mode |
|-----------------|-------------|--------------------------|
| 4.001 – 5.999 | 150 | Fundamental |
| 6.000 – 9.999 | 100 | Fundamental |
| 10.000 – 26.999 | 50 | Fundamental |
| 27.000 – 34.000 | 50 | Fundamental |
| 27.000 – 36.000 | 100 | 3 rd Overtone |
| 36.001 – 70.000 | 80 | 3 rd Overtone |



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➤ OPTIONS AND PART IDENTIFICATION: (Left blank if standard)

AB308 - MHz - - - - - -

Frequency in MHz
Please specify the frequency in MHz.
e.g. 14.31818MHz

Mode
F: Fund. For
27MHz ~ 34MHz

Load Capacitance (pF)
Please specify CL in pF or S for series (10pF min.)
Please contact Abracon for values under 10pF

Freq. Stability
X(*): ± 20 ppm
Y: ± 30 ppm
* Standard temp. or option E, B only

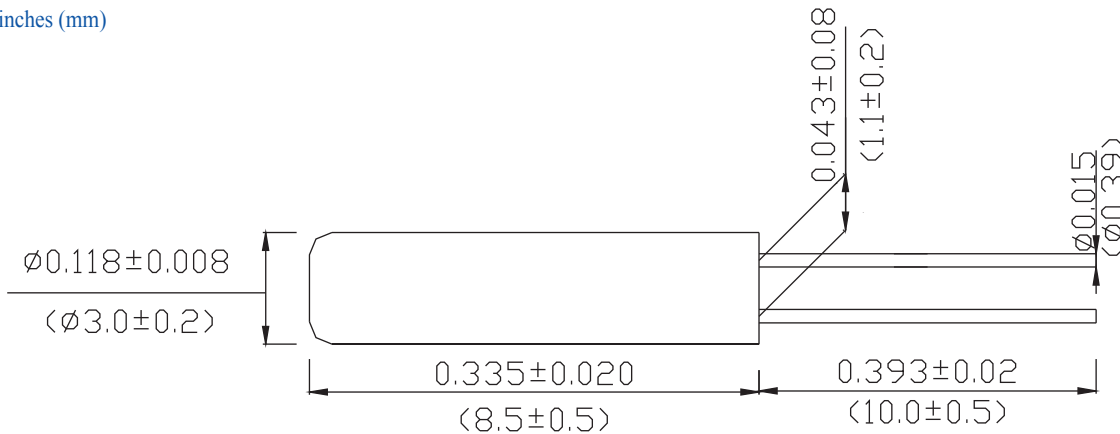
Custom ESR if other than STD
R
□: Specify a value in Ω (e.g.: R40)

Operating Temp.
E: 0°C ~ +70°C
B: -20°C ~ +70°C
D: -40°C ~ +85°C

Freq. Tolerance
2: ± 20 ppm
5: ± 50 ppm

➤ OUTLINE DRAWING:

Dimensions: inches (mm)



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ABRACON IS
ISO9001:2008
CERTIFIED



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