

# HIGH FREQUENCY CYLINDRICAL TYPE MICROPROCESSOR CRYSTAL

AB308

AB308

 RoHS/RoHS II Compliant

8.0 x Ø3.0mm

## 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*  | 4.000                                   |         | 40.000  | MHz   | Fundamental                               |
|   | 40.001                                  |         | 70.000  |       | 3 <sup>rd</sup> Overtone                  |
| Operation Mode  | Fundamental or 3 <sup>rd</sup> Overtone |         |         |       |   |
| Operating Temperature   | -10                                     |         | +60     | °C    | See options                               |
| Storage Temperature   | -40                                     |         | +85     | °C    |   |
| Frequency Tolerance @+25°C  | -30                                     |         | +30     | ppm   | See options                               |
| Frequency Stability over the Operating Temperature ( ref. to +25°C) | -50                                     |         | +50     | ppm   |   |
| Equivalent series resistance (R1)                                   |   |         | 150     | Ω     | 4.000 – 5.999MHz<br>Fundamental           |
|   |   |         | 80      |       | 6.000 – 9.999MHz<br>Fundamental           |
|   |   |         | 60      |       | 10.000 – 10.999MHz<br>Fundamental         |
|   |   |         | 50      |       | 11.000 – 19.999 MHz<br>Fundamental        |
|   |   |         | 40      |       | 20.000 –29.999 MHz<br>Fundamental         |
|   |   |         | 30      |       | 30.000 –40.000 MHz<br>Fundamental         |
|   |   |         | 80      |       | 40.001 – 70.000 MHz<br>3 <sup>rd</sup> OT |
| Shunt capacitance (C0)  |   |         | 5       | pF    |   |
| Load capacitance (CL)   | 16                                      |         |         | pF    | See options                               |
| Drive Level   |   |         | 100     | μW    |   |
| Aging@25°C±3°C  | -5                                      |         | +5      | ppm   | First year                                |
| Insulation Resistance   | 500                                     |         |         | M Ω   | @ 100Vdc ± 15V                            |

\* Please contact Abracon for the availability of frequency>30MHz.

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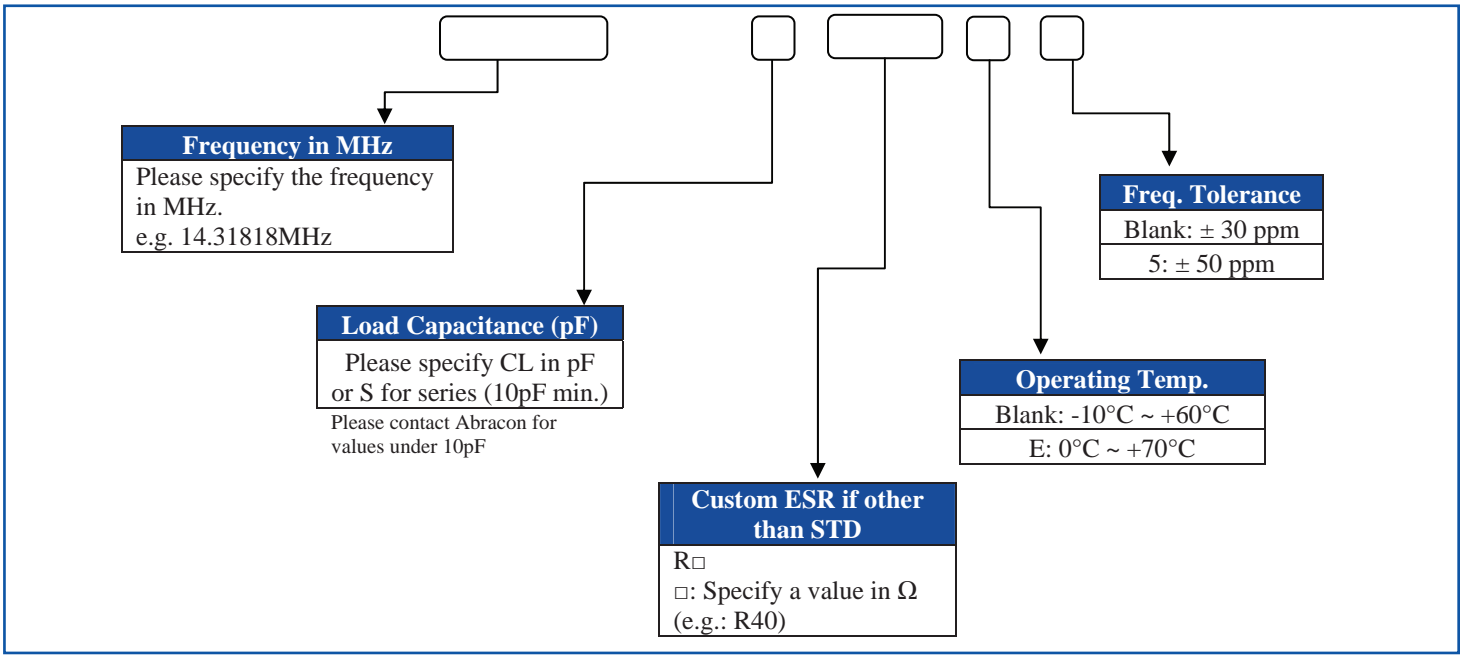


8.0 x Ø3.0mm

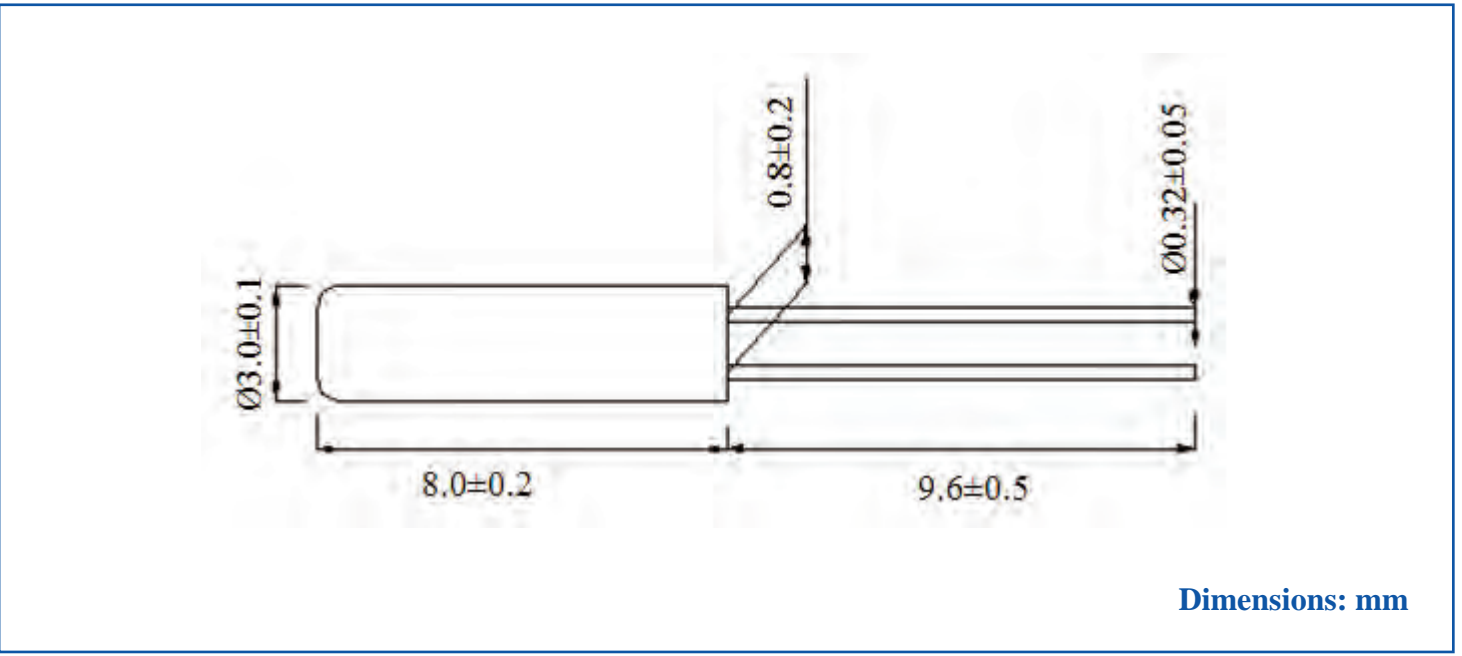
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## OPTIONS AND PART IDENTIFICATION: (Left blank if standard)



## OUTLINE DRAWING:



Packaging = Bulk, 1000pcs/bag