ABM8G - ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL

PARAMETERS

ABRACON P/N | ABM8G Series
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Frequency Range | 12.000MHz - 50.000MHz
Operation Mode | Fundamental
Operating Temperature | -10°C to + 60°C (see options)
Storage Temperature | -55°C to +125°C
Frequency Tolerance at +25°C | ± 50ppm max. (see options)
Frequency Stability over the Operating Temp. (Ref. to +25°C) | ± 50ppm max. (see options)
Equivalent Series Resistance | See table 1
Shunt Capacitance C0 | 5.0pF max
Load Capacitance CL | 10pF (see options)
Drive Level | 100µW max., 10µW Typical
Aging (first year) at 25°C ± 3°C | ±3ppm max.
Insulation Resistance | 500 M Ω min. at 100 Vdc ±15V

TABLE 1 - Standard ESR

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>ESR(Ω) max</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.000</td>
<td>120</td>
</tr>
<tr>
<td>12.001 - 20.000</td>
<td>80</td>
</tr>
<tr>
<td>20.001 - 28.00</td>
<td>60</td>
</tr>
<tr>
<td>28.001 - 50.00</td>
<td>50</td>
</tr>
</tbody>
</table>

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

- Frequency in MHz
  - e.g. 24.576MHz
  - 14.31818MHz
  - 26.0000MHz
- Load Capacitance
  - Please specify CL in pF or S for Series (Minimum 7pF)
  - Please contact ABRACON for values under 10pF
- ESR
  - Specify a value in Ω
- Operating Temp.
  - E: 0°C ~ +70°C
  - B: -20°C ~ +70°C
  - C: -30°C ~ +70°C
  - N: -30°C ~ +85°C
  - D: -40°C ~ +85°C
- Freq. Tolerance
  - 1: ± 10 ppm
  - 2: ± 20 ppm
  - 3: ± 25 ppm
  - 4: ± 30 ppm
- Freq. Stability
  - U: ± 10 ppm (*)
  - G: ± 15 ppm (**) (see options E,B,C,N only)
  - X: ± 20 ppm
  - W: ± 25 ppm
  - Y: ± 30 ppm
  - H: ± 35 ppm
  - Q: ± 100 ppm

(*) -10°C to +60°C only. Contact ABRACON for tighter freq. stability.

(**) -10°C to +60°C option E,B,C,N only

APPLICATIONS:

- Automotive applications
- High density applications.
- Modems, communication and test equipment.
- PMICIA, Wireless applications

STANDARD SPECIFICATIONS:

- Low in height; suitable for thin equipment.
- Glass sealed package assures high reliability and high temperature operation
- Tight tolerance and stability available.
- IR reflow capable
- Low cost version of ABM8 crystal

FEATURES:

- Automotive applications
- High density applications.
- Modems, communication and test equipment.
- PMICIA, Wireless applications

APPROVALS:

RoHS Compliant

Visit www.abracon.com for Terms & Conditions of Sale

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ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL

OUTLINE DRAWING:

TAPE & REEL:

Tape and reel (1,000pcs/reel)
Tape and reel (3,000pcs/reel)

REFLOW PROFILE:

Dimensions: mm

ATTENTION: Abracon Corporation’s products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon’s products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.