STANDARD SPECIFICATIONS:

PARAMETERS

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

APPLICATIONS:

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

FEATURES:

- 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.

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

- ABRM8G - MHz - R - - - - - -

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>

ESR

Specify a value in Ω.

Freq. Tolerance

1: ± 10 ppm
2: ± 20 ppm
3: ± 25 ppm
4: ± 30 ppm

Freq. Stability

U: ± 10 ppm (*)
G: ± 15 ppm (**) 
X: ± 20 ppm
W: ± 25 ppm
Y: ± 30 ppm
H: ± 35 ppm
Q: ± 100 ppm

Load Capacitance

Please specify CL in pF or S for Series (Minimum 7pF).
Please contact ABRACON for values under 10pF.

Frequency in MHz

e.g. 24.576MHz
14.31818MHz
26.0000MHz

Pb in glass exemption 7 (c)-I per RoHS II 2011/65/EU Annex

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

Revised: 05.06.14
ULTRA MINIATURE CERAMIC GLASS SEALED SMD CRYSTAL

ABM8G

Pb in glass exemption 7 (c)-I per RoHS II 2011/65/EU Annex

RoHS Compliant

3.2 x 2.5 x 1.0mm

OUTLINE DRAWING:

Dimensions: Inch (mm)

Dimensions: mm

TAPE & REEL:

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

REFLOW PROFILE:

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-dependant 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.

Need a test socket for the ABM8G Series? To view compatible PRECISION TEST & BURN-IN SOCKETS for these parts, click here.