CERAMIC SURFACE MOUNT
LOW PROFILE MICROPROCESSOR CRYSTAL

ABMM3

FEATUERS:
- Superior heat-resistant glass sealing
- Low in height - for thin equipment
- IR reflow capable
- 4 pins package with ceramic lid

APPLICATIONS:
- Computers, Modems, Microprocessors
- Communication, Test equipment
- PCMCIA
- PDA

STANDARD SPECIFICATIONS:

<table>
<thead>
<tr>
<th>PARAMETERS</th>
<th>ABMM3 Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABRACON P/N</td>
<td>ABMM3 Series</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>8.00MHz to 50.00MHz (Fundamental)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>- 10°C to + 60°C (see options)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>- 40°C to + 90°C</td>
</tr>
<tr>
<td>Frequency Tolerance at 25°C</td>
<td>± 50 ppm max. (see options)</td>
</tr>
<tr>
<td>Frequency Stability over the</td>
<td>± 50 ppm max. (see options)</td>
</tr>
<tr>
<td>Operating Temp. (Ref to +25°C)</td>
<td></td>
</tr>
<tr>
<td>Equivalent Series Resistance</td>
<td>See Table 1</td>
</tr>
<tr>
<td>Shunt Capacitance C₀</td>
<td>7pF max.</td>
</tr>
<tr>
<td>Load Capacitance Cₓ</td>
<td>18pF (see options)</td>
</tr>
<tr>
<td>Drive Level</td>
<td>100μW max.</td>
</tr>
<tr>
<td>Aging at 25°C First Year</td>
<td>± 5 ppm max.</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>500Mohms min at 100Vdc ± 15V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TABLE 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency (MHz)</td>
<td>ESR (Ω)</td>
</tr>
<tr>
<td>8.000 - 9.999 (Fund)</td>
<td>80</td>
</tr>
<tr>
<td>10.000 - 5.999 (Fund)</td>
<td>60</td>
</tr>
<tr>
<td>16.000 - 5.000 (Fund)</td>
<td>50</td>
</tr>
</tbody>
</table>

OPTIONS & PART IDENTIFICATION:

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ABMM3 - Frequency - RXX X RXX X X X X MHz

Frequency
XX.XXXXX MHz

Load Capacitance
Please specify CL in pF or S for Series (8 to 33pF)
Consult with ABRACON for CL value under 8pF.

ESR
RXX X (Value in Ω)

Temp. Range ºC
E 0°C to +70°C
B -20°C to +0°C
C -30°C to +70°C
N -30°C to +85°C
D -40°C to +85°C

Freq. Tolerance
2 ± 20 ppm
3 ± 25 ppm
4 ± 30 ppm

Packaging
Blank
Bulk
T Tape & Reel

Freq. Stability
X ± 20 ppm
W ± 25 ppm
Y ± 30 ppm
H ± 35 ppm
Z ± 100 ppm

Pb in glass (exempt per RoHS 2002/95/EC Annex (5))

RoHS Compliant

ABRACON IS
ISO 9001 / QS 9000 CERTIFIED

Visit www.abracon.com for Terms & Conditions of Sale Revised: 08.19.10
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LOW PROFILE MICROPROCESSOR CRYSTAL

OUTLINE DIMENSIONS:

Recommended land pattern

Dimensions: Inch(mm)

TAPE & REEL: (1,000pcs/reel)

Dimensions: mm

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.