ABLSG

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

FEATURES:
• 3rd Lead is Grounded, Ideal for EMI Sensitive Applications
• IR-reflow capable
• Low height reduced to 4.2mm
• Tight stability & extended temperature available

APPLICATIONS:
• EMI sensitive applications
• Computers, Modems, Microprocessors
• Medical Electronics
• Wireless Applications

STANDARD SPECIFICATIONS:

PARAMETERS
ABRACON P/N        ABLSG Series
Frequency          3.579545 MHz to 75 MHz
Operation Mode     AT cut (Fundamental or 3rd OT) or BT cut
                   3.579545MHz - 24.0MHz (Fundamental: Standard)
                   24.01 - 75.00MHz (3rd- Overtone: Standard)
                   24.01MHz - 50.00MHz
                   (Fund. AT or BT: Please specify. See options)
Operating Temperature 0°C to + 70°C (see options)
Storage Temperature  -55°C to + 125°C
Frequency Tolerance ± 50 ppm max. (see options)
Frequency Stability over the Operating Temp. (Ref to +25°C) ± 50 ppm max. (see options)
Equivalent Series Resistance See Table 1
Shunt Capacitance C₀ 7pF max.
Load Capacitance Cᵣ 18pF (see options)
Drive Level          1 mW max., 100µW typical
Aging at 25°C Per Year ± 5ppm max.
Insulation Resistance 500 MΩ min at 100Vdc ± 15V
Spurious Responses:  -3dB max.
Drive level dependency (DLD) From 1µW to 500µW (minimum 7 points tested)

OPTIONS & PART IDENTIFICATION:
(Left blank if standard)

ABLSG - [ ] MHz - [ ] - R [ ] - [ ] - [ ] - [ ]

Frequency in MHz
3.579545 MHz
14.31818 MHz
26.0000 MHz

Load Capacitance
Please specify CL in pF or S for Series (8 to 33pF)
(please contact ABRACON for other values)

ABRACON IS ISO9001:2008 CERTIFIED

TABLE 1: ESR

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>ESR (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.579 - 4.999 (Fund.)</td>
<td>180</td>
</tr>
<tr>
<td>5.000 - 5.999 (Fund.)</td>
<td>120</td>
</tr>
<tr>
<td>6.000 - 7.999 (Fund.)</td>
<td>100</td>
</tr>
<tr>
<td>8.000 - 8.999 (Fund.)</td>
<td>80</td>
</tr>
<tr>
<td>9.000 - 9.999 (Fund.)</td>
<td>60</td>
</tr>
<tr>
<td>10.000 - 15.999 (Fund.)</td>
<td>50</td>
</tr>
<tr>
<td>16.000 - 50.000 (Fund.)</td>
<td>40</td>
</tr>
<tr>
<td>24.01 - 31.999 (3rd O/T)</td>
<td>100</td>
</tr>
<tr>
<td>32.000 - 70.00 (3rd O/T)</td>
<td>80</td>
</tr>
</tbody>
</table>

FREQUENCY (MHz)  ESR (Ω)
24.01 - 75.00MHz  120
24.01MHz - 50.00MHz  80

* 10 to +60°C only.
** Option A, E, B, and 0 to +70°C only.
*** Frequency stability ±50ppm, ±100ppm, ±150ppm only.
Contact ABRACON for tighter frequency or stability requirement.
**** For Fundamental BT, frequency stability ±100ppm max. at 10°C to +60°C only.
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