SMD Multilayer Chip Bead

ACML-0201

Features:
- Internal silver printed layers and magnetically shielded to minimize crosstalk
- Substantial EMI suppression over a wide frequency range
- Excellent solderability and heat resistance

Standard Specifications:

Operating Temperature: -55°C ~ +125°C

Storage Temperature: -10°C to +40°C, 70% RH max

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Z(Ω) ±25%</th>
<th>Z Test Freq. (MHz)</th>
<th>DCR (Ω) (max)</th>
<th>Ir (mA) (max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACML-0201-600</td>
<td>60</td>
<td>100</td>
<td>0.40</td>
<td>200</td>
</tr>
<tr>
<td>ACML-0201-800</td>
<td>80</td>
<td>100</td>
<td>0.60</td>
<td>200</td>
</tr>
<tr>
<td>ACML-0201-121</td>
<td>120</td>
<td>100</td>
<td>0.80</td>
<td>200</td>
</tr>
<tr>
<td>ACML-0201-241</td>
<td>240</td>
<td>100</td>
<td>1.00</td>
<td>200</td>
</tr>
<tr>
<td>ACML-0201-471</td>
<td>470</td>
<td>100</td>
<td>1.40</td>
<td>200</td>
</tr>
<tr>
<td>ACML-0201-601</td>
<td>600</td>
<td>100</td>
<td>1.70</td>
<td>200</td>
</tr>
</tbody>
</table>

Test Conditions and equipments

Z: High Accuracy RF Impedance/Material Analyzer -E4991A, 100MHz, -20dBm or 50mV
DCR: High Accuracy Milliohmmeter –HP4338B
Ir: Electric Power Supply, Electric Current Meter, Thermometer. ΔT ≤ 20°C

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:
- Ambient Temperature: 20±15°C
- Relative Humidity: 65%±20%
- Air Pressure: 86 KPa to 106 KPa

Visual Examination
- Inspection Equipment: 20X magnifier

Options and Part Identification:

ACML-0201- imped. - packaging

Impedance Code
- Please refer to Electrical Spec table

Packaging
- T: Tape and Reel (15kpcs / reel)

RoHS Compliant

ABRACON IS ISO 9001:2008 CERTIFIED

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

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30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com
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OUTLINE DRAWING:

Recommended Land Pattern

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.2-0.3</td>
<td>0.2-0.3</td>
<td>0.3-0.35</td>
</tr>
</tbody>
</table>

Dimension: mm [inch]

Materials

<table>
<thead>
<tr>
<th></th>
<th>Part Name</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Base Material</td>
<td>Ferrite</td>
</tr>
<tr>
<td>2</td>
<td>Internal Conductor</td>
<td>Ag</td>
</tr>
<tr>
<td>3</td>
<td>Pull out Electrode</td>
<td>Ag</td>
</tr>
<tr>
<td>4</td>
<td>Terminal Electrode</td>
<td>Ag (Inner layer) Ni-Sn (Outer layer)</td>
</tr>
</tbody>
</table>
**REFLOW PROFILE:**

- **Preheat Condition:** 150 to 200 °C; 60 to 120 sec.
- **Allowed time above 217 °C:** 60 to 90 sec.
- **Max temperature:** 260 °C
- **Max time at max temperature:** 10 sec.
- **Solder paste:** Sn/3.0Ag/0.5Cu
- **Allowed Reflow time:** 2x max.

**TAPE & REEL:**

- **T:** 15,000pcs / reel

**Dimension:** mm

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