AWCCA-98T56H38-C01-B

**Moisture Sensitivity Level (MSL) – MSL = 1**

**FEATURES:**
- Wireless Charging Transmitter Triple Coil Array
- Outline Dimensions: 98.0mm x 56.0mm x 3.8mm
- Linear Array of Primary Coils, 2 lower coils (12.0μH), 1 upper coil (11.5μH).
- For Tx applications working with 12V
- High permeability shielding to protect sensitive electronics
- Durable construction
- RoHS / RoHS II Compliant & Pb free.

**APPLICATIONS:**
- Wireless Charging Stations
- Automotive Industry (in-car charging)
- Batteries Chargers
- Consumer Electronics Chargers
- Mobile Phone Charging Accessories
- Power Tool Charging Systems

**DESCRIPTION & KEY ELECTRICAL SPECIFICATIONS**

The AWCCA-98T56H38-C01-B Wireless Charging Coil is suitable for transmitter (Tx) applications. It is a 3 coil design with inductance of 12.0μH (2 lower coils), and 11.5μH (upper coil).

**Maximum Ratings**

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>T=-25°C ~ 85°C, RH≤ 90%.</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-25°C~85°C, 70%RH (Max.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inductance</th>
<th>DC Resistance</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWCCA-98T56H38-C01-B</td>
<td>12μH ±10% (lower coils)</td>
<td>56mΩ ±20%</td>
<td>120 ±30% (lower coils)</td>
</tr>
<tr>
<td></td>
<td>11.5μH ±10% (upper coils)</td>
<td></td>
<td>110 ±30% (upper coils)</td>
</tr>
<tr>
<td>Test Condition</td>
<td>100KHz / 1V</td>
<td>20±15°C</td>
<td>100KHz / 1V</td>
</tr>
<tr>
<td>Test Environment</td>
<td>Temperature: 20±10°C, RH: 65% ±20%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Equipment: Chroma11025</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Test Conditions**: 20±15°C

**PART IDENTIFICATION:**

AWCCA-98T56  H38 - C  01 - B

- **Height**: H11 = 3.8mm
- **Feature**: C = Coil
- **Design Code**: 01
- **Packaging**: B: Box
Tx Wireless Charging Coil Assembly

AWCCA-98T56H38-C01-B

RoHS / RoHS II Compliant

Dimensions in mm

<table>
<thead>
<tr>
<th>Item</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spec</td>
<td>98±1.0</td>
<td>56±1.0</td>
<td>3.8 Max</td>
<td>15 REF</td>
<td>5.0 REF</td>
<td>45.0 REF</td>
<td>20.0 REF</td>
</tr>
</tbody>
</table>

Winding Specifications

<table>
<thead>
<tr>
<th>Number of Coils</th>
<th>Wire</th>
<th>Number of Turns</th>
<th>Inductance</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Ø 17AWG (1.15mm) Type 2 Litz wire with 105 strands 40 AWG (0.08mm)</td>
<td>12</td>
<td>Lower 12uH±10%µH Upper11.5uH±10%µH</td>
</tr>
</tbody>
</table>

Wave Soldering Profile: Not suitable for wave soldering

Manual Soldering: 350°C Max, 3secs

Packaging: Box, 100pcs MOQ
**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.

**NOTE:**

i) The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.

ii) ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.

iii) In no case shall ABRACON be liable for any product failure from inappropriate handling or operation of the item beyond the scope of this specification.

iv) When changing your production process, please notify ABRACON immediately.

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vi) All specifications and Marking will be subject to change without notice.