Wire Wound Chip Balun Wide Band Transformer

ABT-8

Features
- Small size and low profile SMT package
- Low insertion loss within working frequency range
- 1:1 impedance ratio
- Excellent solderability

Applications:
- Balanced unbalanced transformation between antenna and cable for TV tuner, STB

Electrical Specifications:
- Balanced/unbalanced transformation between antenna and cable for TV tuner, STB

Electrical Characteristic Curves

Operating Temperature: -40°C to +85°C

Storage Temperature: -10°C to +40°C, 70% RH max. in tape and reel

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency Range (MHz)</th>
<th>Unbalance/Balance Impedance (ohm)</th>
<th>DC Resistance (Ω) Max</th>
<th>Rated Current (mA) Max</th>
<th>Insertion Loss max (dB)</th>
<th>CMRR min (dB)</th>
<th>Rated Voltage (Vdc)</th>
<th>Withstand Voltage (Vdc)</th>
<th>Insulation Resistance Min. (MΩ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABT-8-75-1</td>
<td>45~870</td>
<td>75/75</td>
<td>0.80</td>
<td>200</td>
<td>1.0</td>
<td>20</td>
<td>50</td>
<td>125</td>
<td>10</td>
</tr>
<tr>
<td>ABT-8-50-1</td>
<td>45~870</td>
<td>50/50</td>
<td>0.80</td>
<td>200</td>
<td>1.2</td>
<td>20</td>
<td>50</td>
<td>125</td>
<td>10</td>
</tr>
<tr>
<td>ABT-8-75-2</td>
<td>50~1200</td>
<td>75/75</td>
<td>0.40</td>
<td>300</td>
<td>1.5</td>
<td>20</td>
<td>50</td>
<td>125</td>
<td>10</td>
</tr>
<tr>
<td>ABT-8-75-3</td>
<td>1000~1500</td>
<td>75/75</td>
<td>0.42</td>
<td>290</td>
<td>1.4</td>
<td>20</td>
<td>50</td>
<td>125</td>
<td>10</td>
</tr>
</tbody>
</table>

2 Faraday, Suite # B | Irvine | CA 92618 | Revised: 02.04.15
Ph. 949.546.8000 | Fax. 949.546.8001
Visit www.abracon.com for Terms and Conditions of Sale
Wire Wound Chip Balun Wide Band Transformer

ABT-8

2.0 x 1.2 x 1.2mm

ABRACON IS

ISO9001:2008

CERTIFIED

Pb RoHS / RoHS II Compliant

ELECTRICAL CHARACTERISTIC CURVES

**ABT-8-50-1**

**Insertion Loss Characteristic**

**CMRR Characteristic**

**Amplitude Imbalance Characteristic**

**Phase Balance Characteristic**

**Return Loss Characteristic**

Visit [www.abracon.com](http://www.abracon.com) for Terms and Conditions of Sale

ABRACON CORPORATION

2 Faraday, Suite B Irvine CA 92618

Revised: 02.04.15

Ph. 949.546.8000 | Fax. 949.546.8001

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

Downloaded from Arrow.com.
Wire Wound Chip Balun Wide Band Transformer

ABT-8

2.0 x 1.2 x 1.2mm

RoHS / RoHS II Compliant

ELECTRICAL CHARACTERISTIC CURVES

ABT-8-75-2

Insertion Loss Characteristic

CMRR Characteristic

Amplitude Imbalance Characteristic

Phase Balance Characteristic

Return Loss Characteristic

Visit www.abracon.com for Terms and Conditions of Sale
Wire Wound Chip Balun Wide Band Transformer

**ELECTRICAL CHARACTERISTIC CURVES**

**ABT-8-75-3**

- **Insertion Loss Characteristic**
- **CMRR Characteristic**
- **Amplitude Imbalance Characteristic**
- **Phase Balance Characteristic**
- **Return Loss Characteristic**

**Specifications**
- 2.0 x 1.2 x 1.2mm
- RoHS / RoHS II Compliant
PART IDENTIFICATION:

ABT-8- □ - □ - □

- Impedance Code
- Please refer to Electrical Spec Table
- Frequency Range Code
- Please refer to Electrical Spec Table
- Packaging
- T: 2kpcs/reel

OUTLINE DIMENSIONS:

Recommended Land Pattern

Material Structure

---

No. | Part Name | Material Name
--- | --- | ---
1 | Lid | Ni-Zn Ferrite
2 | Epoxy | Epoxy resin
3 | Wire | Polyurethane system enameled copper wire
4 | Core | Ni-Zn Ferrite
5 | Electrode | (Ag-Pd)+Ni+Sn plating

Dimension: mm

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

Revised: 02.04.15

Ph. 949.546.8000 | Fax. 949.546.8001

2 Faraday, Suite# B | Irvine | CA 92618

ABRACON CORPORATION

ABRACON IS ISO9001:2008 CERTIFIED

Downloaded from Arrow.com.
Wire Wound Chip Balun Wide Band Transformer

**ABT-8**

**REFLOW PROFILE:**

- Preheat condition: 150~200°C/60~120sec.
- Allowed time above 217°C: 60~90sec.
- Max temp: 260°C
- Max time at max temp: 10sec.
- Solder paste: Sn/3.0Ag/0.5Cu
- Allowed Reflow time: 2 times max.

**TAPE & REEL:**

- T= tape and reel (2,000pcs/reel)

**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.