**Surface Mount**

**RF Transformer**

50Ω 3 to 300 MHz

**Maximum Ratings**
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -55°C to 100°C
- RF Power: 0.25W
- DC Current: 30mA

Permanent damage may occur if any of these limits are exceeded.

**Pin Connections**
- PRIMARY DOT: 6
- PRIMARY: 4
- SECONDARY DOT: 1
- SECONDARY: 3
- SECONDARY CT: 2

**Outline Drawing AT224-1**

**Outline Dimensions (inch/10th)**
- A: .150
- B: .150
- C: .160
- D: .050
- E: .040
- F: .025
- G: .028
- H: .065
- J: .190
- K: .030
- L: .007 grams
- wt: .71
- .65
- .83
- .76
- .18
- .15

**Notes**
- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit’s applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, “Standard Terms”); Purchaser of this part are entitled to the rights and benefits therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits’ website at www.minicircuits.com/MCLStore/terms.jsp

**Features**
- good return loss
- excellent amplitude unbalance (0.5 dB typ) and phase unbalance (4 deg. typ) in 1 dB bandwidth
- plastic base with leads
- aqueous washable

**Applications**
- impedance matching
- balanced to unbalanced transformation
- push-pull amplifier

**Electrical Specifications**

<table>
<thead>
<tr>
<th>RATIO</th>
<th>FREQUENCY (MHz)</th>
<th>INSERTION LOSS* (dB)</th>
<th>PHASE UNBALANCE (Deg.) Typ.</th>
<th>AMPLITUDE UNBALANCE (dB) Typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3-300</td>
<td>—</td>
<td>3-300</td>
<td>4</td>
</tr>
</tbody>
</table>

* Insertion Loss is referenced to mid-band loss, -4 dB typ.