**Surface Mount**

**RF Transformer**

**T1-1T**

50Ω  0.08 to 200 MHz

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**Maximum Ratings**
- Operating Temperature: -20°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.**

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**Features**
- wideband, 0.08 to 200 MHz
- excellent return loss
- also available with surface mount gull wing (KK81) plug-in (X65) leads

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**Applications**
- VHF
- receivers/transmitters

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**Transformer Electrical Specifications**

<table>
<thead>
<tr>
<th><strong>Ω RATIO</strong></th>
<th><strong>FREQUENCY (MHz)</strong></th>
<th><strong>INSERTION LOSS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 dB</td>
<td>2 dB</td>
</tr>
<tr>
<td>1</td>
<td>0.08-200</td>
<td>.08-200</td>
</tr>
</tbody>
</table>

*Insertion Loss is referenced to mid-band loss, 0.3 dB typ.*

---

**Typical Performance Data**

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>INSERTION LOSS (dB)</th>
<th>INPUT R. LOSS (db)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05</td>
<td>2.78</td>
<td>1.64</td>
</tr>
<tr>
<td>0.08</td>
<td>1.18</td>
<td>4.39</td>
</tr>
<tr>
<td>0.20</td>
<td>0.52</td>
<td>9.45</td>
</tr>
<tr>
<td>0.50</td>
<td>0.38</td>
<td>16.31</td>
</tr>
<tr>
<td>1.00</td>
<td>0.36</td>
<td>19.67</td>
</tr>
<tr>
<td>80.00</td>
<td>0.64</td>
<td>9.96</td>
</tr>
<tr>
<td>99.33</td>
<td>0.76</td>
<td>8.80</td>
</tr>
<tr>
<td>150.00</td>
<td>1.23</td>
<td>5.83</td>
</tr>
<tr>
<td>192.51</td>
<td>1.60</td>
<td>4.60</td>
</tr>
<tr>
<td>200.00</td>
<td>1.63</td>
<td>4.55</td>
</tr>
</tbody>
</table>

---

**Notes**
A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit’s applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, “Standard Terms”); Purchasers of this part are entitled to the rights and benefits contained 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

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**Config. A**

PRI  SEC

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**REV C**  
ECC-005835  
T1-1T+  
10/2019  
210119

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Generic photo used for illustration purposes only

**CASE STYLE: W38**

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our website for RoHS Compliance methodologies and qualifications

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

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**NON-CATALOG**