### Transformer Electrical Specifications

<table>
<thead>
<tr>
<th>RATIO (Secondary/Primary)</th>
<th>FREQUENCY (MHz)</th>
<th>INSERTION LOSS*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 dB MHz</td>
<td>2 dB MHz</td>
</tr>
<tr>
<td>36</td>
<td>0.03-20</td>
<td>0.03-20</td>
</tr>
</tbody>
</table>

*Insertion Loss is referenced to mid-band loss, 0.4 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>0.03</td>
<td>2.44</td>
<td>6.98</td>
</tr>
<tr>
<td>0.05</td>
<td>1.60</td>
<td>9.75</td>
</tr>
<tr>
<td>0.05</td>
<td>1.50</td>
<td>10.28</td>
</tr>
<tr>
<td>0.10</td>
<td>0.89</td>
<td>15.22</td>
</tr>
<tr>
<td>0.20</td>
<td>0.69</td>
<td>19.88</td>
</tr>
<tr>
<td>0.27</td>
<td>0.67</td>
<td>20.32</td>
</tr>
<tr>
<td>0.47</td>
<td>0.55</td>
<td>24.87</td>
</tr>
<tr>
<td>2.17</td>
<td>0.38</td>
<td>16.92</td>
</tr>
<tr>
<td>4.66</td>
<td>0.50</td>
<td>10.04</td>
</tr>
<tr>
<td>20.00</td>
<td>2.58</td>
<td>1.81</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-Circles’s 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-Circles’ website at www.minicircuits.com/MCLStore/terms.jsp

### RF Transformer

#### T36-1-KK81

- **50Ω**
- **0.03 to 20 MHz**

#### 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.

#### Pin Connections

- PRIMARY DOT 4
- PRIMARY 6
- SECONDARY DOT 3
- SECONDARY 1
- SECONDARY CT —
- NOT USED 2,5

#### Features

- good return loss
- also available with plug-in (X65) and flat-pack (W38) leads

#### Applications

- HF
- amateur radio
- impedance matching

#### Typical Performance Data

- **FREQUENCY (MHz):** 0.03, 0.05, 0.05, 0.10, 0.20, 0.27, 0.47, 2.17, 4.66, 20.00
- **INSERTION LOSS (dB):** 2.44, 1.60, 1.50, 0.89, 0.69, 0.67, 0.55, 0.38, 0.50, 2.58
- **INPUT R. LOSS (dB):** 6.98, 9.75, 10.28, 15.22, 19.88, 20.32, 24.87, 16.92, 10.04, 1.81

#### Case Style

- **KK81**

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**Mini-Circuits**

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