MiniRF

MRFXF2733

1:2 SMT TRANSFORMER

RoHS Compliant and Pb-Free Product
Package: S-20

Features
- Frequency Range 5-210 MHz
- Low Cost and RoHS Compliant
- Flux Coupled
- Industry Standard SMT package
- Available in Tape-and-Reel
- 75 Ω Characteristic Impedance

Applications
- Broadband
- Wireless Communications

Schematic

Product Description
The MRFXF2733 transformer is designed for applications that require small, low cost, and highly reliable surface mount components. Applications may be found in broadband, wireless, and other communications systems. These units are built Lead-Free and RoHS compliant. S-Parameters are available on request.

Parameter | Specification | Unit | Condition
--- | --- | --- | ---
Frequency | 5 | 250 | MHz
Insertion Loss | - | Typ. | dB
Input Return Loss | - | 27 | -
Amplitude Balance | 0.2 | 0.7 | dB
Phase Balance | 2 | 6 | °
Impedance Ratio | 1:2 | | |
Type | Unbalanced to Balanced | |

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Rating</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Power</td>
<td>2</td>
<td>W</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40 to +85</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-55 to +100</td>
<td>°C</td>
</tr>
</tbody>
</table>

Caution! ESD sensitive device.
Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended application of Absolute Maximum Rating conditions to the device may reduce device reliability. Specified typical performance or functional operation of the device under Absolute Maximum Rating conditions is not implied.

RoHS status based on EU Directive 2002/95/EC (at time of this document revision).

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### Pin Out

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Secondary</td>
</tr>
<tr>
<td>2</td>
<td>Secondary CT</td>
</tr>
<tr>
<td>3</td>
<td>Secondary Dot</td>
</tr>
<tr>
<td>4</td>
<td>Primary Dot</td>
</tr>
<tr>
<td>5</td>
<td>Primary</td>
</tr>
</tbody>
</table>

### S20 Package Drawing

Dimensions in inches (millimeters)

```plaintext
Pin 1: 0.150 [3.81]
Pin 2: 0.090 [2.29]
Pin 3: 0.190 [4.83]
Pin 4: 0.065 [1.65]
Pin 5: 0.050 [1.27]
```