Features
- Frequency Range 5MHz to 200MHz
- Low Cost and RoHS Compliant
- Industry Standard SMT package
- Available in Tape-and-Reel
- 75Ω Characteristic Impedance

Applications
- Broadband/CATV
- Wireless

Product Description
The RFX0013 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
--- | --- | --- | ---
Overall | | | Typical values represent Mid-Band performance at 25 °C
Frequency Range | 5 | 200 | MHz
Insertion Loss | 0.5 | 0.8 | dB
Amplitude Balance | 0.2 | 0.5 | dB
Phase Balance | 2 | 5 | Deg
Input Return Loss | 15 | 22 | dB
Impedance Ratio, P:S | 1:1 | | |
Type - Flux Coupled | Unbalance to Balanced |

Absolute Maximum Ratings

Parameter | Rating | Unit
--- | --- | ---
RF Power | 2 | W
Operating Temperature | -45 to +85 | °C
Storage Temperature | -55 to +100 | °C

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.

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RoHS (Restriction of Hazardous Substances): Compliant per EU Directive 2002/95/EC.
Typical Data

Input Return Loss versus Frequency

Insertion Loss versus Frequency

Amplitude Balance versus Frequency

Phase Balance versus Frequency
## Pin Names and Descriptions

<table>
<thead>
<tr>
<th>Pin</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SECONDARY DOT</td>
<td>Output (Port 2)</td>
</tr>
<tr>
<td>2</td>
<td>SECONDARY CT</td>
<td>Ground</td>
</tr>
<tr>
<td>3</td>
<td>SECONDARY OUTPUT</td>
<td>Output (Port 3)</td>
</tr>
<tr>
<td>4</td>
<td>PRIMARY Ground</td>
<td>Ground</td>
</tr>
<tr>
<td>6</td>
<td>PRIMARY DOT</td>
<td>Input (Port 1)</td>
</tr>
</tbody>
</table>

## Package Drawing - S20C

Dimensions in inches (millimeters)