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# XFA-0101-1BH

## 1:1 SMT TRANSFORMER

**RoHS Compliant and Pb-Free Product**
**Package: S06**

## Features

- Frequency Range: 0.008MHz to 100MHz
- Impedance Ratio: 1:1, Balanced to Balanced
- Low Cost and RoHS Compliant
- Industry Standard SMT package
- Available in Tape-and -Reel
- 50Ω Nominal Impedance

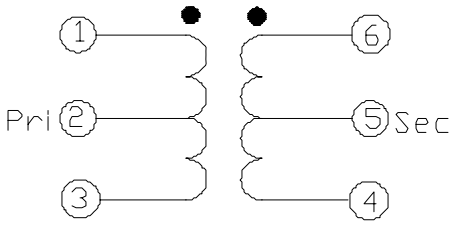

## Product Description

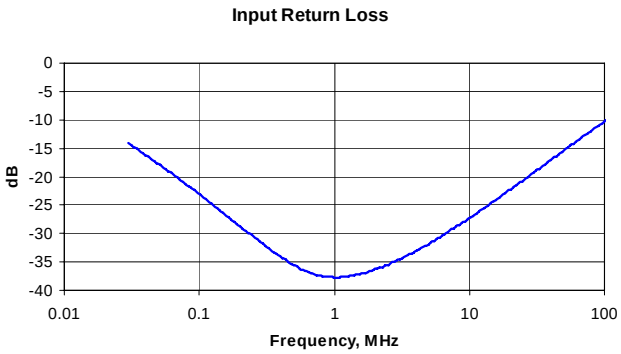
The XFA-0101-1BH transformer is designed for applications that require small, low cost, and highly reliable surface mount components. Applications may be found in broadband, wireless, and other communications systems. These units are built Lead-Free and RoHS Compliant.

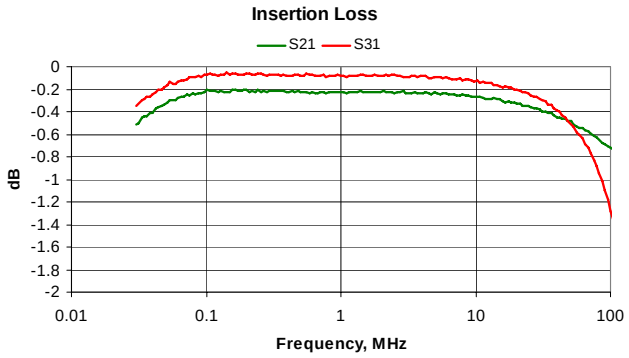
### Specifications

| Parameter | Specification | | | Unit |
|---|---|---|---|---|
| | Min. | Typ. | Max. | |
| Frequency Range | 0.008 | | 100 | MHz |
| Insertion Loss <1dB | 0.015 | | 40 | MHz |
| Insertion Loss <2dB | 0.010 | | 80 | MHz |
| Insertion Loss <3dB | 0.008 | | 100 | MHz |
| Impedance Ratio | 1:1 | | | |
| Type | Balanced to Balanced | | | |

### Schematic





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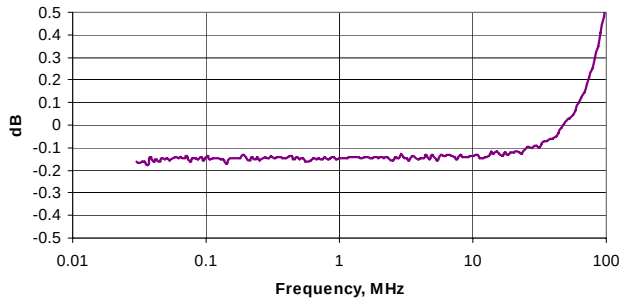
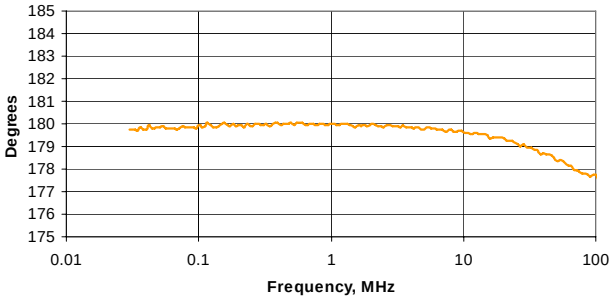
**Amplitude Balance**



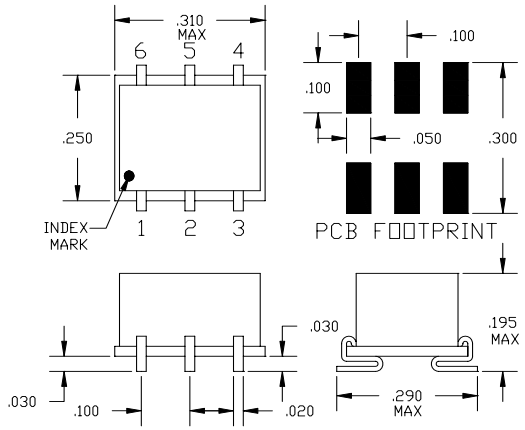

**Phase Balance**




## Pin Out

| Pin | Name |
|---|---|
| 1 | Primary Dot |
| 2 | Primary CT |
| 3 | Primary |
| 4 | Secondary |
| 5 | Secondary CT |
| 6 | Secondary DOT |

## Package Drawing - S06




## Absolute Maximum Ratings

| Parameter | Rating | Unit |
|---|---|---|
| RF Power | +33 | dBm |
| Operating Temperature | -55 to +100 | °C |
| Storage Temperature | -55 to +100 | °C |

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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