

MRFXF0837 BALUN



S-20D



Features

- Frequency Range 45-1800
- 20 dB RL / 0.9 dB IL Typ.
- · High Bias Current Handling
- Miniature .150" x .150" SMT package
- 1:1 Transformer 75 Ω Impedance

Applications

- * CATV Networks
- Broadband Systems

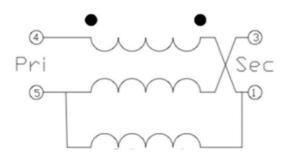
Specifications

Parameter	Specification		Units	
	Min	Тур.	Max.	
Operating Frequency Range	45		1800	MHz
Insertion Loss:				
45 – 1200 MHz		0.5	0.9	dB
1200 – 1800 MHz		0.9	1.4	ub ub
Amplitude Balance:				
45 – 1200 MHz		0.2	0.4	dB
1200 – 1800 MHz		0.5	0.8	45
Phase Balance				
45 – 1200 MHz		2	4	Degrees
1200 – 1800 MHz		4	8	
Input Return Loss:				
45 – 1400 MHz	20	23		dB
1400 – 1800 MHz	17	20		
Nominal Impedance	75 Ω			
Impedance Ratio	1:1			
Transformer Type	Unbalanced to Balanced			
Package	20D			

Product Description

The MRFXF0837 was designed for CATV networks and broadband applications that require repeatable and reliable performance to 2 GHz. The balun offers excellent return loss and low insertion loss for balance to single-ended RF applications. The MRFXF0837 is low-cost, surface mount, lead-free, and RoHS compliant. The balun uses welded-wire construction for increased reliability. S-parameters are available on the web.

Schematic Diagram



Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended applications 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 not applied.

RoHS Status based on EU Directive 2002/95/EC (at the time of this document $\ \ revision$

The information in this publication is believed to be accurate and reliable. However, no responsibilities is assumed by MiniRF Inc. for its use, nor for any infringements of patents, or other rights of third parties, resulting from its use. No license is granted by implication or otherwise under any patent or patent rights of MiniRF Inc.

Absolute Maximum Ratings

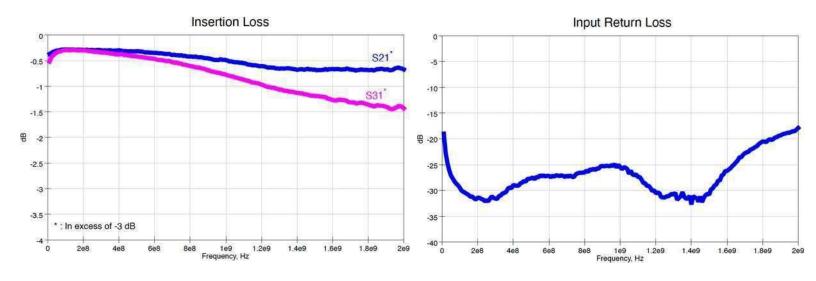
Power Handling	3W
DC Current	400 mA
Operating Temp	-40°C to +85°C
Storage Temp	-40°C to +100°C

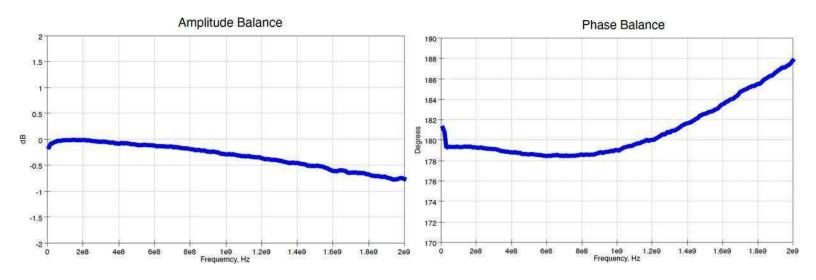


MRFXF0837 BALUN



Typical Data







MRFXF0837 BALUN



Pin Out

PIN	FUNCTION
1	SECONDARY DOT (OUTPUT 1)
2	NC
3	SECONDARY (OUTPUT 2)
4	PRIMARY DOT (Input)
5	PRIMARY (Ground)

Typical DC Bias Configuration

20D Package Drawing Dimensions in inches (millimeters)

