MABA-011020



E-Series RF 1:4 Flux Coupled Step-up Transformer 1 - 350 MHz

Rev. V2

Features

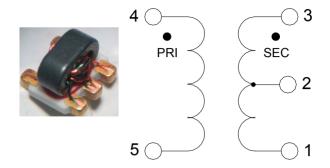
- 1:4 Impedance Ratio
- Surface Mount Package
- Centre Tap on Frequency
- Tape and Reel Packaging Available
- RoHS* Compliant & Lead Free

Description

The MABA-011020 is a RoHS compliant 1:4 RF flux coupled step-up transformer in a surface mount package.

Ideally suited for CATV application.

Schematic



Pin Configuration

Pin#	Function	Pin#	Function
1	Secondary	4	Primary Dot
2	Secondary CT	5	Primary
3	Secondary Dot		

Electrical Specifications: Freq. = 1 - 350 MHz, $T_A = 25$ °C, $Z_0 = 50 \Omega$, $P_{IN} = 0 \text{ dBm}$

Parameter	Freq. Test Conditions (MHz)	Units	Min.	Тур.	Max.
Insertion Loss	5 - 100 2 - 300 1 - 350	dB	_	0.5 0.9 0.8	1.0 2.0 3.0
Amplitude Balance	5 - 100 1 - 350	dB	_	0.0 0.0	±0.1 ±0.5
Phase Balance	5 - 100 1 - 350	0	_	0.1 0.2	±1.0 ±5.0

Ordering Information

Parameter	Package	
MABA-011020	2000 piece reel	
MABA-011020-TB	customer evaluation board	

Absolute Maximum Ratings

Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Operating Temperature	-40°C to +85°C		

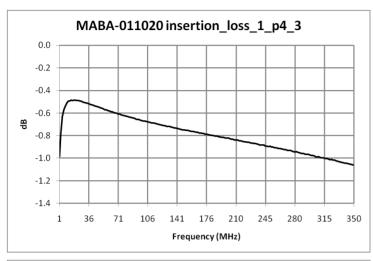
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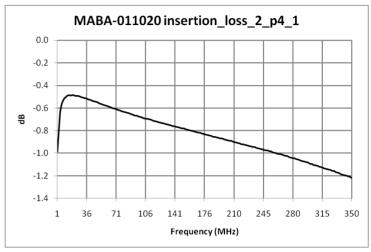


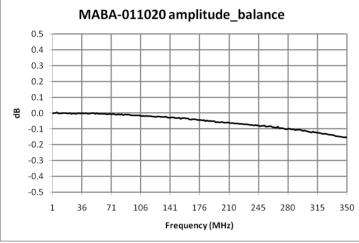
E-Series RF 1:4 Flux Coupled Step-up Transformer 1 - 350 MHz

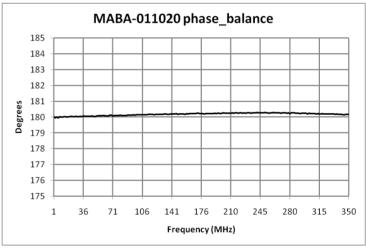
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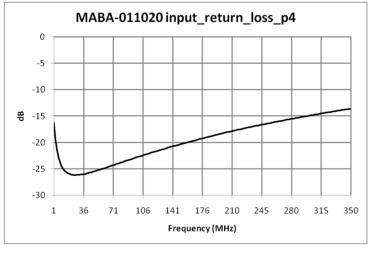
Typical Performance Curves









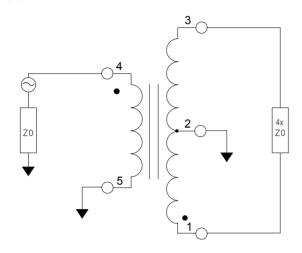




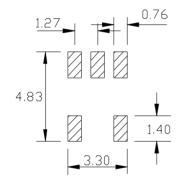
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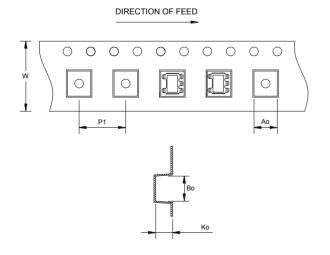
Application Circuit



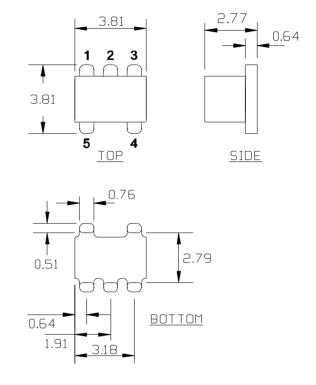
Recommended Footprint



Tape & Reel Information



Outline Drawing



- 1. Dimensions in mm.
- 2. Tolerance: ±0.2 mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- 4. Plating finish: Au

Dimensions

Item	Dimension (mm)	
A _O	4.00 +/-0.1	
B _O	4.00 +/-0.1	
Ko	2.90 +/-0.1	
W	12.00 +/-0.3	
P1	8.00 +/-0.1	
Orientation	F5	
Reference Application note ANI-019 for orientation		

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