

1:8 Flux Coupled Transformer

2 - 500 MHz Rev. V4

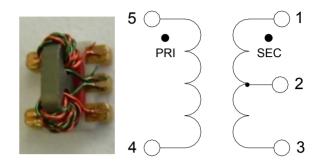
Features

- Surface Mount Package
- 1:8 Impedance
- Wide Frequency Range
- RoHS Compliant, Lead Free
- Available on Tape and Reel

Description

The MABA-010143-FLUX18 is a RoHS compliant 1:8 RF flux coupled transformer in a surface mount package. The windings are welded to the package substrate for improved reliability and to eliminate lead content. Ideally suited for high volume cellular and wireless application.

Schematic



Pin Configuration

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

Electrical Specifications: Freq. = 2 - 500 MHz, T_A = 25°C, Z_0 = 50 Ω , P_{IN} = 0 dBm

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Insertion Loss	_	dB	_	1.0	2.0
Amplitude Unbalance	_	dB	_	0.1	0.4
Phase Unbalance	_	o	_	0.2	0.8

Ordering Information

Parameter	Package
MABA-010143-FLUX18	2000 piece reel

Absolute Maximum Ratings

Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to +125°C		

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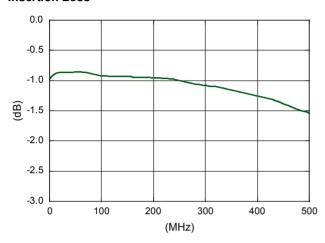


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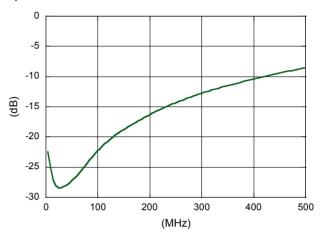
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Typical Performance: $T_A = 25^{\circ}C$, $Z_0 = 50 \Omega$, $P_{IN} = 0 dBm$

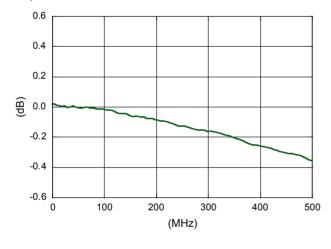
Insertion Loss



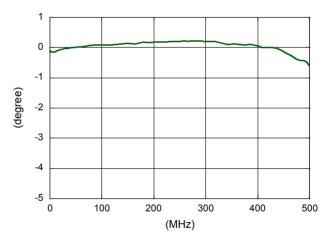
Input Return Loss



Amplitude Unbalance



Phase Unbalance

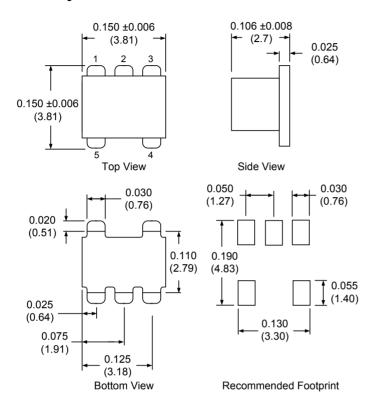




1:8 Flux Coupled Transformer 2 - 500 MHz

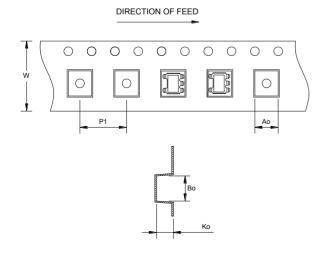
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Case Style SM-22



Dimensions are inches (millimeters) ± 0.015 (0.38) unless otherwise specified. Drawing not to scale.

Tape & Reel Information



Dimensions

Item	Dimension (mm)		
Ao	4.00 +/-0.1		
Bo	4.30 +/-0.1		
Ko	2.90 +/-0.1		
W	12.00 +/-0.3		
P1	8.00 +/-0.1		

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Rev. V4

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