

Features

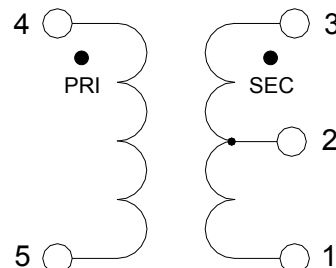
- 1:4 Impedance Ratio
- Surface Mount Package
- Tape and Reel Packaging Available
- RoHS* Compliant & 260°C Reflow Compatible

Description

The MABA-009488-61HWCA is a RoHS compliant 1:4 RF flux coupled transformer in a surface mount package.

Typical applications include single to balanced mode conversion.

Schematic



Pin Configuration

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

Electrical Specifications: Freq. = 3 - 800 MHz, T_A = 25°C, Z₀ = 50 Ω, P_{IN} = 0 dBm

Parameter	Freq. Test Conditions (MHz)	Units	Min.	Typ.	Max.
Insertion Loss	3 - 400	dB	—	0.6	1
	400 - 800			1.5	3
Amplitude Balance	3 - 400	dB	—	0.1	0.5
	400 - 800			0.7	1.5
Phase Balance	3 - 400	°	—	0.3	3
	400 - 500			3.0	10
Input Return Loss	3 - 400	dB	13	22	30
	400 - 800		10	11	13

Ordering Information

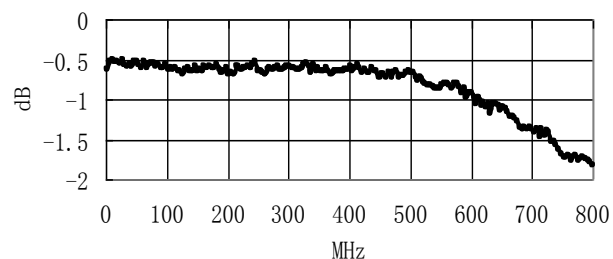
Parameter	Package
MABA-009488-61HWCA	2000 piece reel

Absolute Maximum Ratings

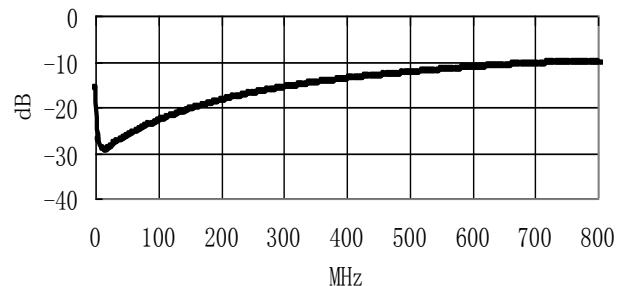
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	240 mA
Operating Temperature	-40°C to +85°C

Typical Performance Curves at +25°C

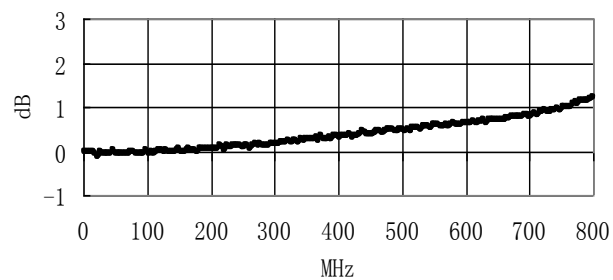
Insertion Loss



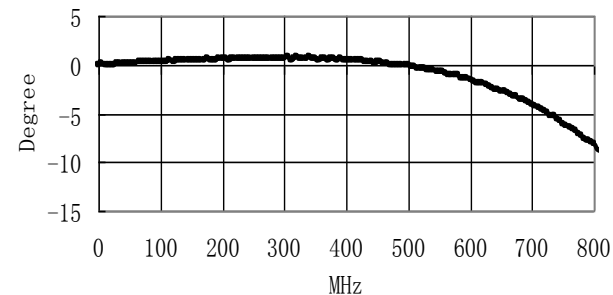
Input Return Loss



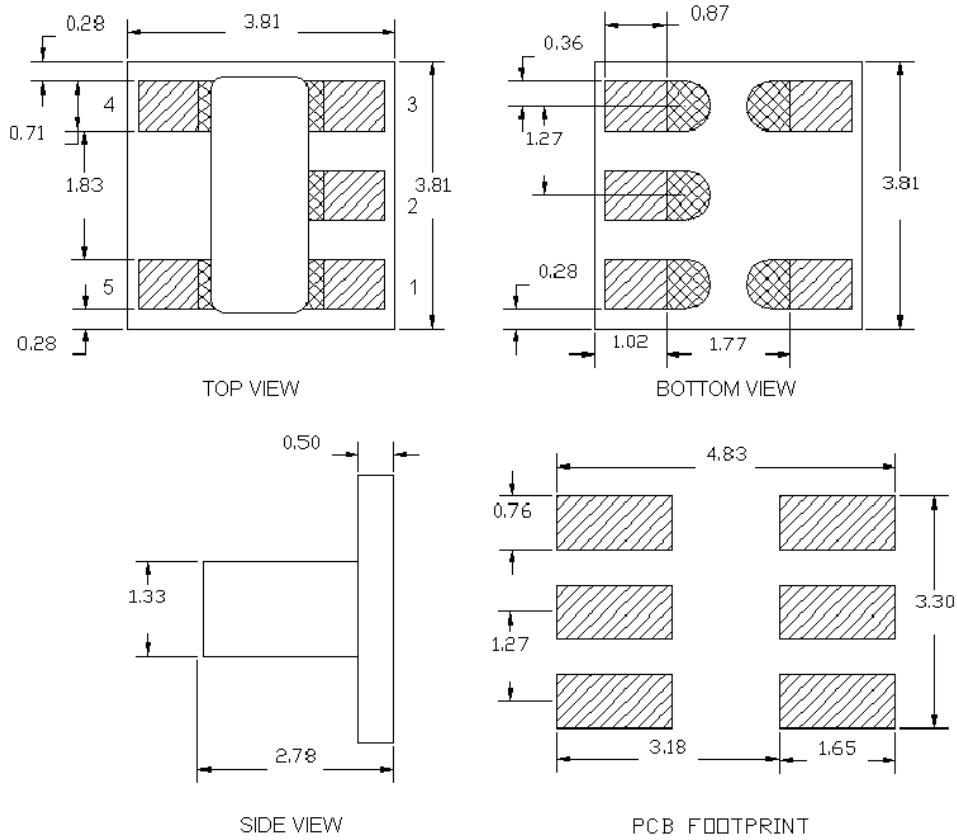
Amplitude Balance



Phase Balance

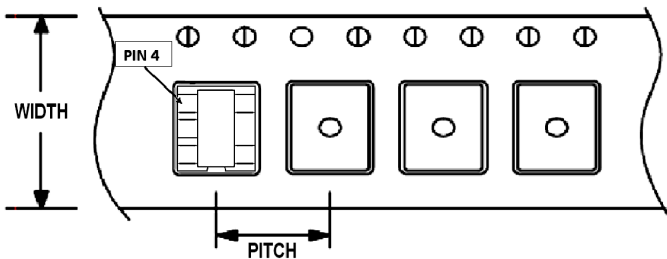


Outline Drawing



* Dimensions are millimeters ± 0.38 unless otherwise specified.

Carrier Tape Orientation



Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	900
Reel Size	mm	330
Tape Width	mm	12.00
Pitch	mm	8.00
Orientation	-	F31
Reference Application Note ANI-019 for orientation		

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