

E-Series RF 1:4 Transformer 3 - 800 MHz

Rev. V4

Features

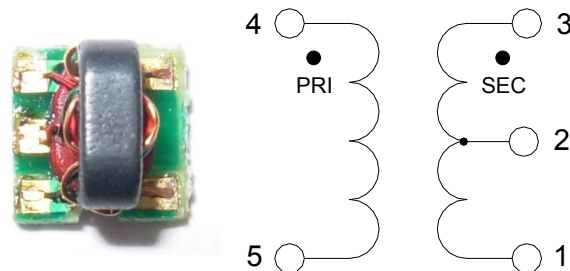
- 1:4 Impedance Ratio
- Surface Mount Package
- Tape and Reel Packaging Available
- RoHS* Compliant & 260°C Reflow Compatible

Description

The MABA-009488-61HWCA is a RoHS compliant 1:4 RF flux coupled transformer in a surface mount package (SM-195).

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

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

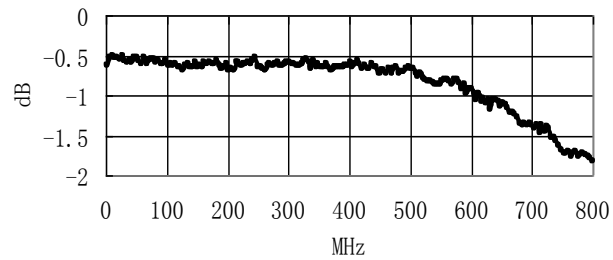
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	240 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

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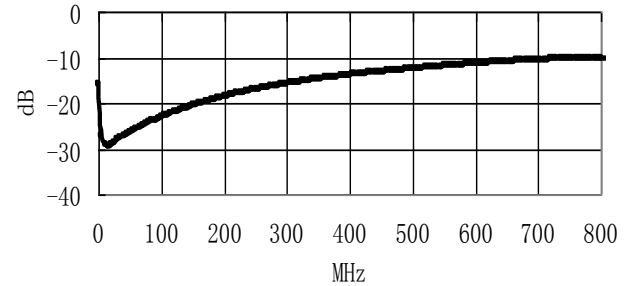
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Typical Performance Curves at +25°C

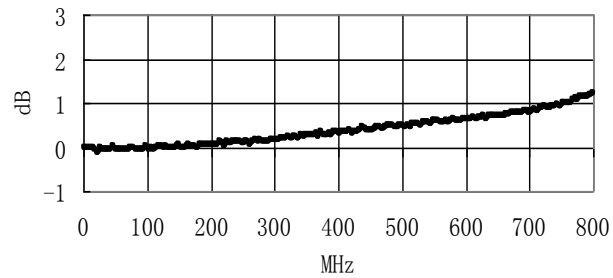
Insertion Loss



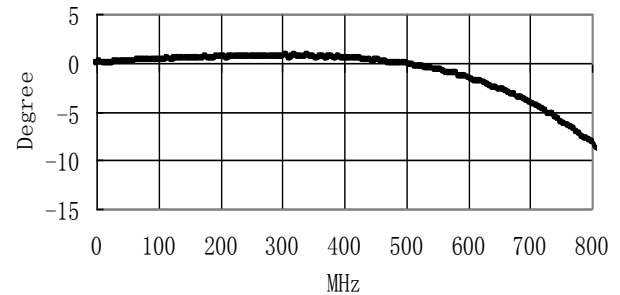
Input Return Loss



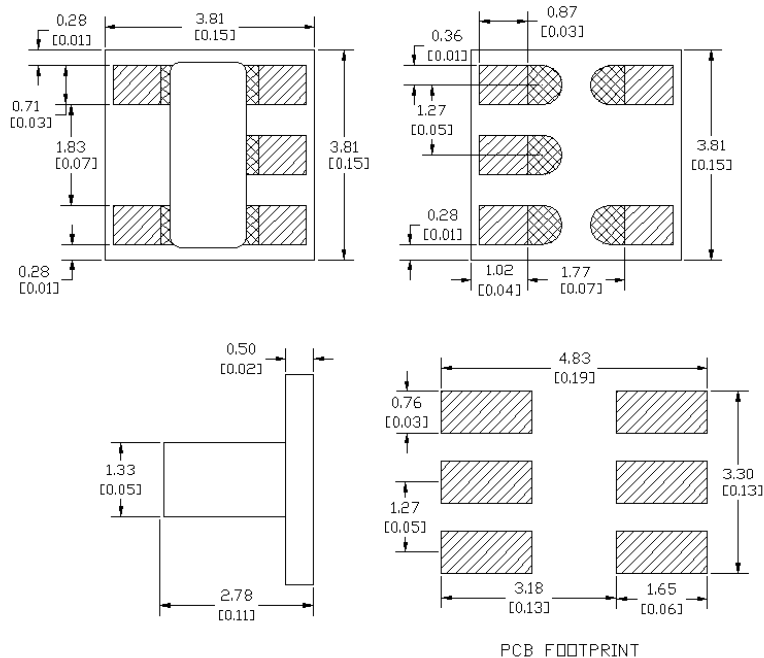
Amplitude Balance



Phase Balance



Outline Drawing (SM-195)



2 * Dimensions are millimeters (inches) ± 0.38 (0.015) unless otherwise specified.

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DS-MABA-009488-61HWCA

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