

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

Rev. V7

### **Features**

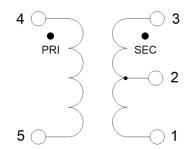
- 1:4 Impedance Ratio
- Surface Mount Package
- Tape and Reel Packaging Available
- RoHS\* Compliant & 260°C Reflow Compatible

### **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, $Z_0$ = 50 $\Omega$ , $P_{IN}$ = 0 dBm

Parameter	Freq. Test Conditions (MHz)	Units	Min.	Тур.	Max.
Insertion Loss	3 - 400 400 - 800	dB	_	0.6 1.5	1 3
Amplitude Balance	3 - 400 400 - 800	dB	_	0.1 0.7	0.5 1.5
Phase Balance	3 - 400 400 - 500	o	_	0.3 3.0	3 10
Input Return Loss	3 - 400 400 - 800	dB	13 9	22 11	30 13

## **Ordering Information**

Parameter	Package	
MABA-009488-61HWCA	2000 piece reel	

### **Absolute Maximum Ratings**

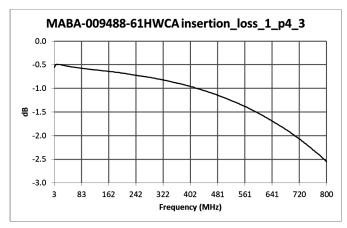
Parameter	Absolute Maximum	
RF Power	250 mW	
DC Current	240 mA	
Operating Temperature	-40°C to +85°C	

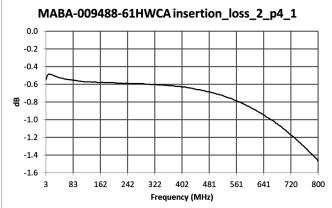


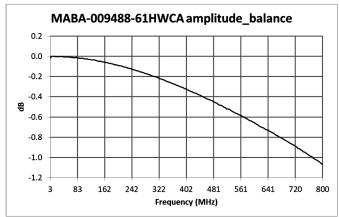
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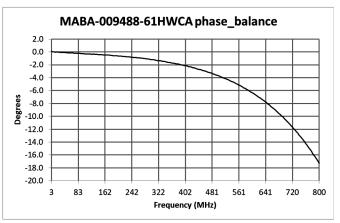
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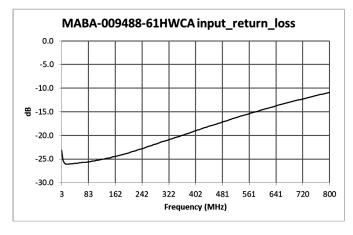
### Typical Performance Curves at +25°C









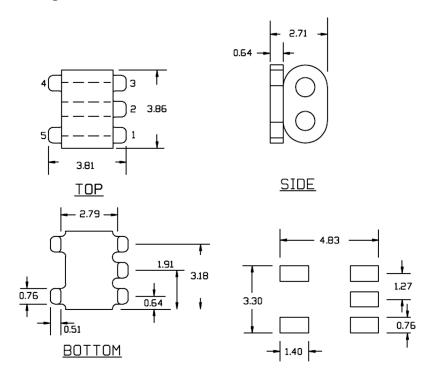




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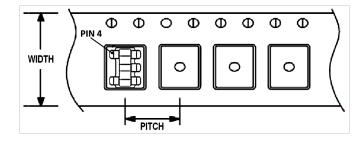
### **Outline Drawing**



### **PCB FOOTPRINT**

\* Dimensions are millimeters ±0.2 unless otherwise specified.

### **Carrier Tape Orientation**



### **Tape & Reel Information**

Parameter	Units	Value		
Qty per reel	-	2000		
Reel Size	mm	330		
Tape Width	mm	12.00		
Pitch	mm	8.00		
Orientation	-	F5		
Reference Application Note ANI-019 for orientation				



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