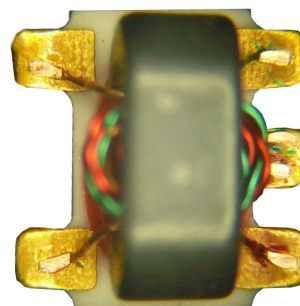


## E-Series RF 1:4 Coupled Step-Up Transformer 1 - 350 MHz

Rev. V2

### Features

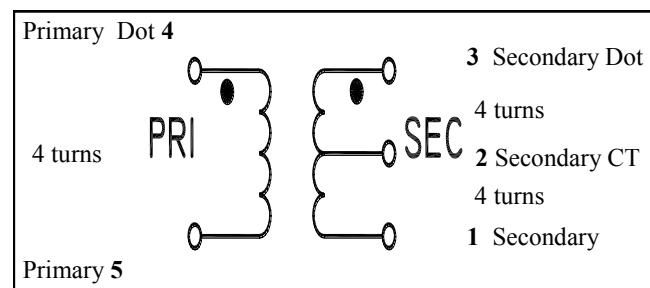
- Surface mount
- Wide frequency range
- 1:4 Impedance Ratio
- CT on Secondary
- Lead Free
- RoHS\* Compliant and is 260°C reflow compatible.
- Available on Tape and Reel, reel quantity 2000



### Pin Configuration

Pin No.	Function
1	Secondary
2	Secondary CT
3	Secondary Dot
4	Primary Dot
5	Primary

### Schematic



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

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	1 - 350	MHz	—	—	—
Insertion Loss	$F_L - f_U$	5 - 100	dB	—	1.21	1.0
		2 - 300				2.0
		1 - 350				3.0
Amplitude Unbalance	—	5 - 100	dB	—	—	0.1
		1 - 350				0.5
Phase Unbalance	—	5 - 100	Degrees	—	—	1.0
		1 - 350				5.0

### Ordering Information

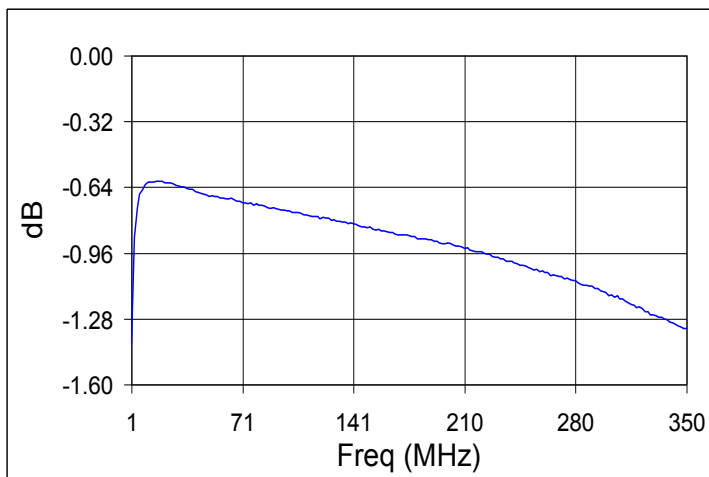
Part Number	Description
MABA-007237-ETC410	2000 piece reel

### Recommended Maximum Ratings

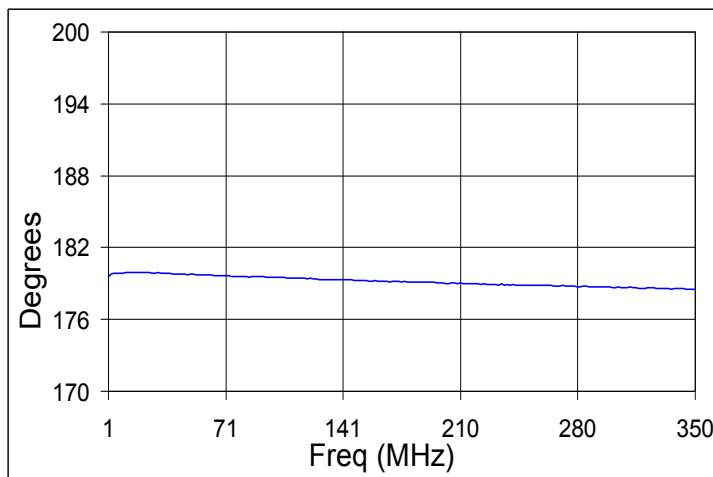
Parameter	Absolute Maximum
DC Power	250 mW
DC Current	30 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. MACOM does not recommend sustained operation near these survivability limits.

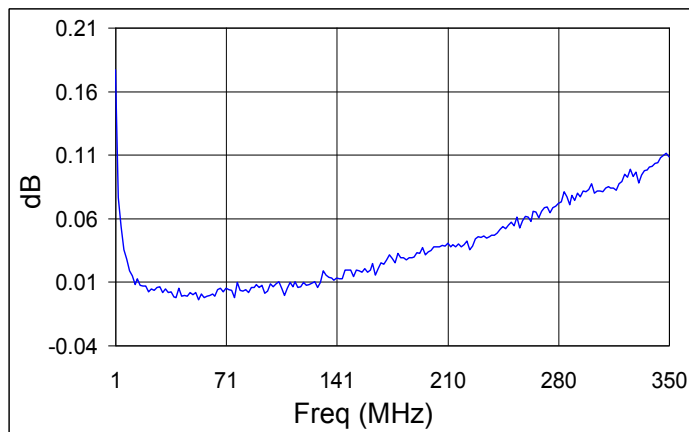
### Insertion Loss



### Isolation: Pin 3 to 6

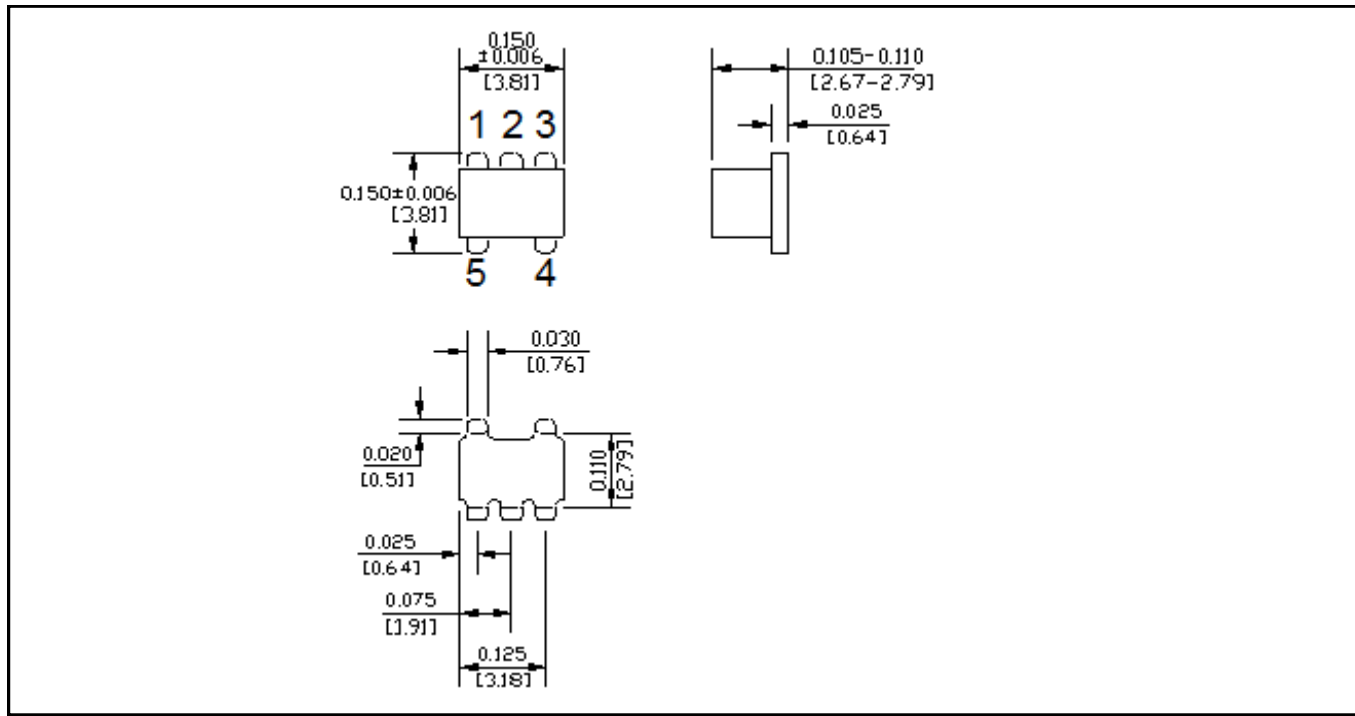


### Return Loss: Output Pin 4



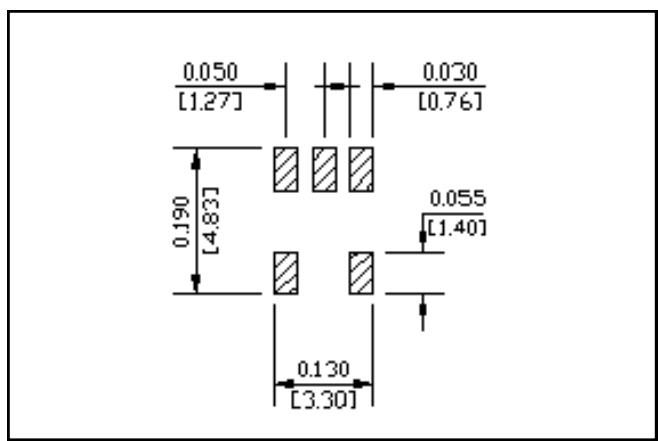
Electrical Specifications:  $Z_0 = 75\Omega$ ,  $T_A = 25^\circ\text{C}$ ,  $P_{in} = 0\text{dBm}$

## Outline Drawing



1. Dimensions in mm.
2. Tolerance:  $\pm 0.2$ mm unless otherwise noted.
3. Model number and lot code printed on reel.

## Recommended Footprint



## Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel size	mm	330
Tape width (W)	mm	12.0
Pitch (P <sub>1</sub> )	mm	12.0
A <sub>0</sub>	mm	4.0
B <sub>0</sub>	mm	4.0
K <sub>0</sub>	mm	2.9
Orientation	-	F5
Reference Application Note ANI-019 for orientation		

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