



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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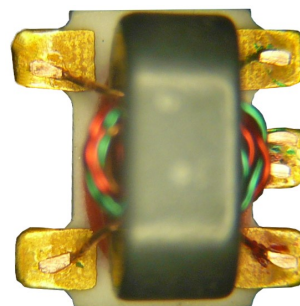


E-Series RF 1:4 Coupled Step-Up Transformer 1 - 350 MHz

Rev. V2

Features

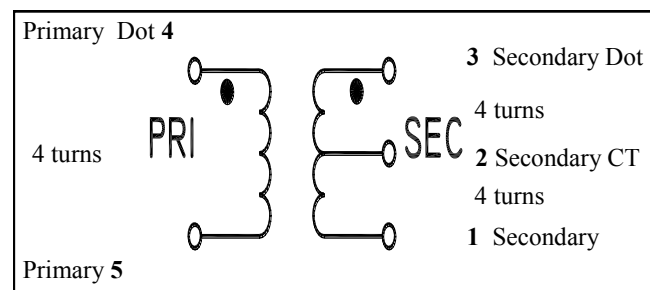
- Surface mount
- Wide frequency range
- 1:4 Impedance Ratio
- CT on Secondary
- Lead Free
- RoHS* Compliant and is 260°C reflow compatible.
- Available on Tape and Reel, reel quantity 2000



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	—	—	1.0
		2 - 300			1.21	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

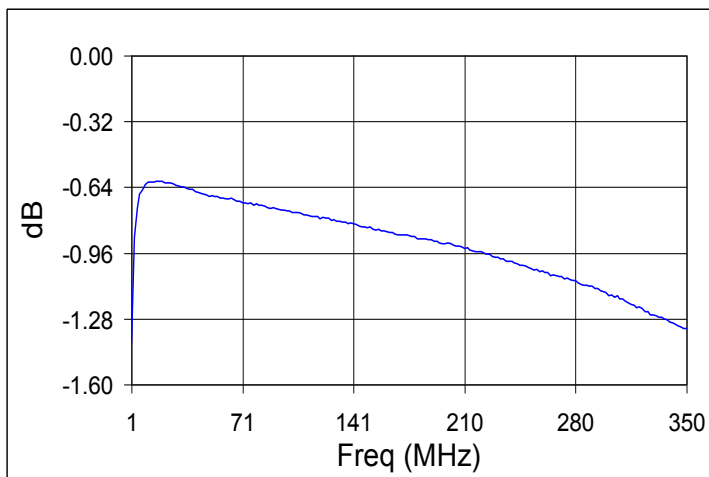
Part Number	Description
MABA-007237-ETC410	2000 piece reel

Recommended Maximum Ratings

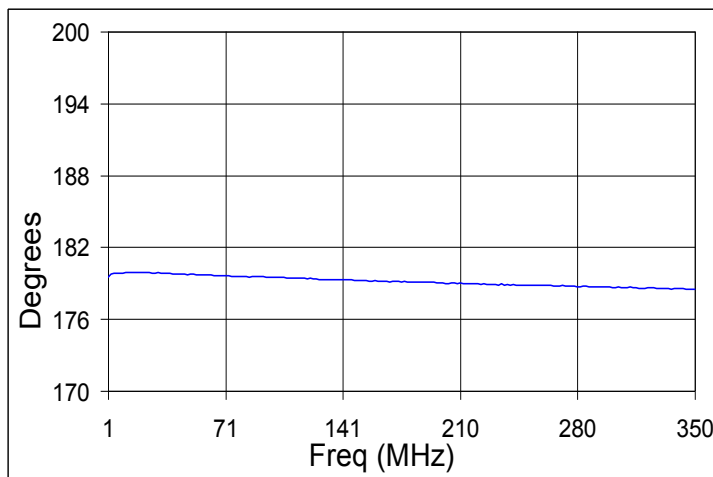
Parameter	Absolute Maximum
DC Power	250 mW
DC Current	30 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

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.

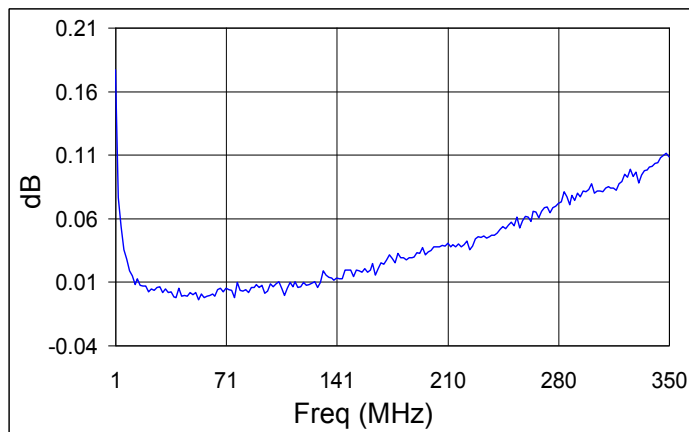
Insertion Loss



Isolation: Pin 3 to 6

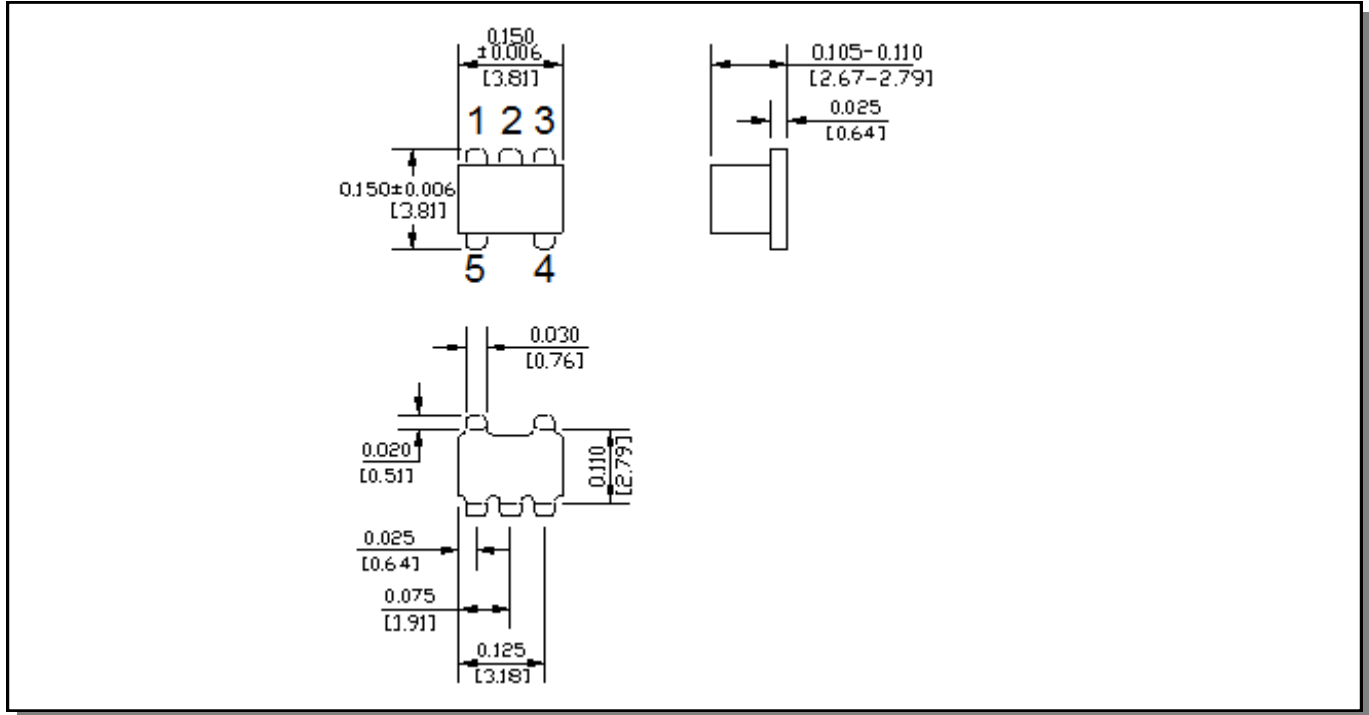


Return Loss: Output Pin 4



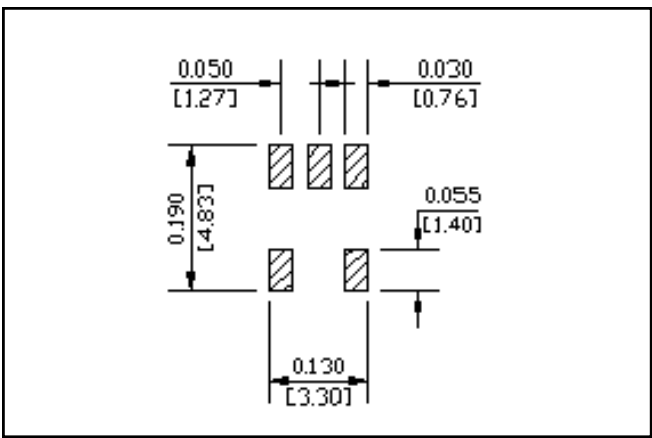
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Outline Drawing



1. Dimensions in mm.
2. Tolerance: ± 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 ₁)	mm	12.0
A ₀	mm	4.0
B ₀	mm	4.0
K ₀	mm	2.9
Orientation	-	F5
Reference Application Note ANI-019 for orientation		

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