MABA-007237-ETC410



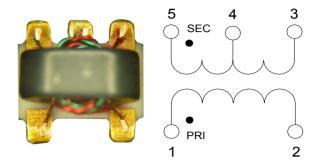
E-Series RF 1:4 Coupled Step-Up Transformer 1 - 350 MHz

Rev. V3

Features

- Surface mount
- · Wide frequency range
- 1:4 Impedance Ratio
- CT on Secondary
- Lead Free
- RoHS* Compliant and is 2600C reflow compatible.
- Available on Tape and Reel, reel quantity 2000

Schematic



Pin Configuration

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

Electrical Specifications: RF Freq. = 1 - 350 MHz, T_A = +25°C, P_{IN} = 0 dBm

Parameter	Test Conditions & Frequency	Units	Min.	Тур.	Max.
Insertion Loss	FL - fU 5 - 100 MHz 2 - 300 MHz 1 - 350 MHz	dB	_	_ 1.21 _	1.0 2.0 3.0
Amplitude Unbalance	5 - 100 MHz 1 - 350 MHz	dB	_	_	0.1 0.5
Phase Unbalance	5 - 100 MHz 1 - 350 MHz	Degrees	_		1.0 5.0

Ordering Information

Part Number	Description	
MABA-007237-ETC410	2000 piece reel	

Recommended Maximum Ratings^{1,2}

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.
- MACOM does not recommend sustained operation near these survivability limits.

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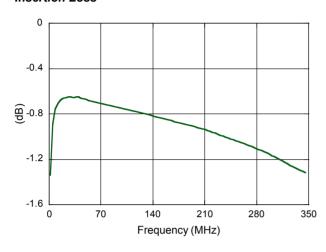


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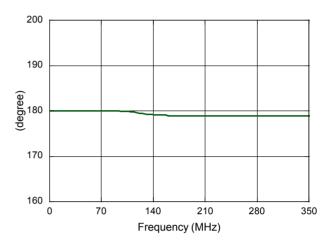
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Typical Performance Curves

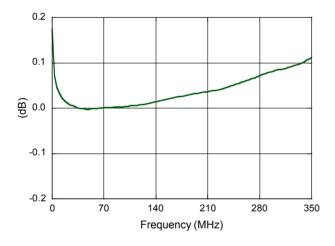
Insertion Loss



Phase Balance



Amplitude Balance

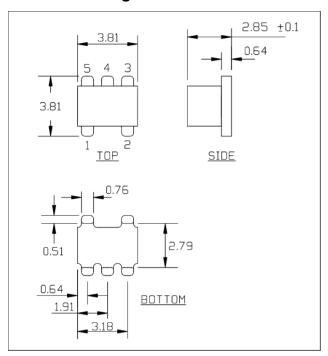




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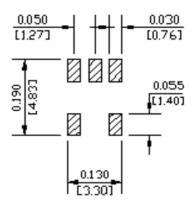
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Outline Drawing



- 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		
Orientation	-	F5		
Reference Application Note ANI-019 for orientation				

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