MABA-007237-ETC410

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

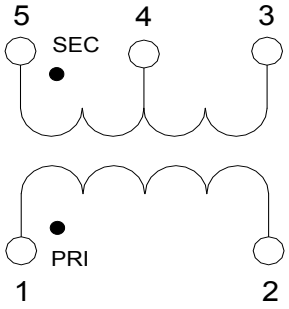
Rev. V3

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.	Typ.	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

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

Ordering Information

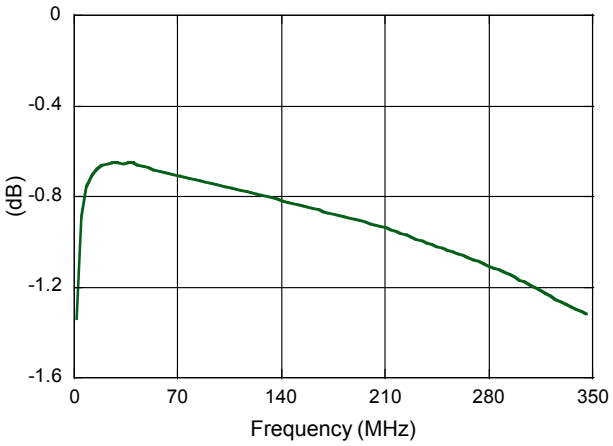
Part Number	Description
MABA-007237-ETC410	2000 piece reel

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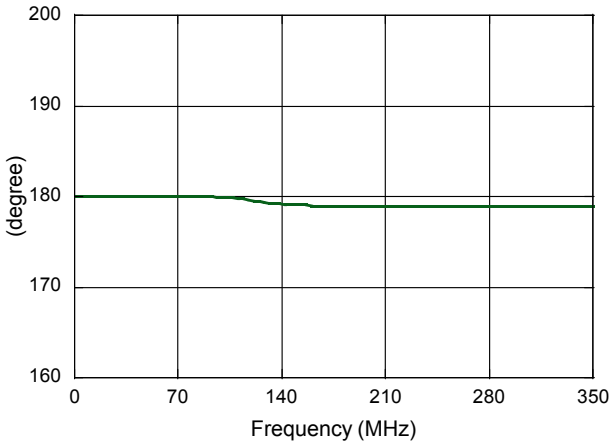
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Typical Performance Curves

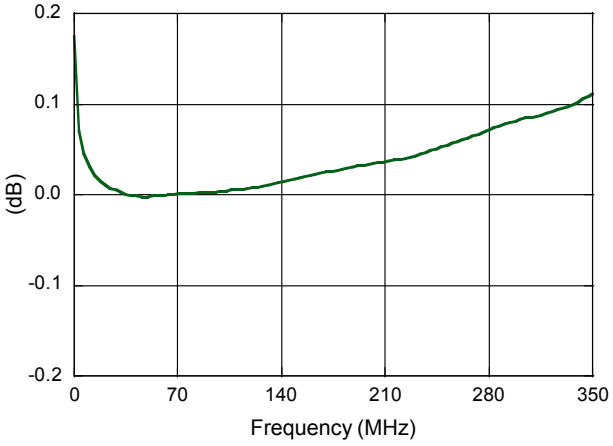
Insertion Loss



Phase Balance



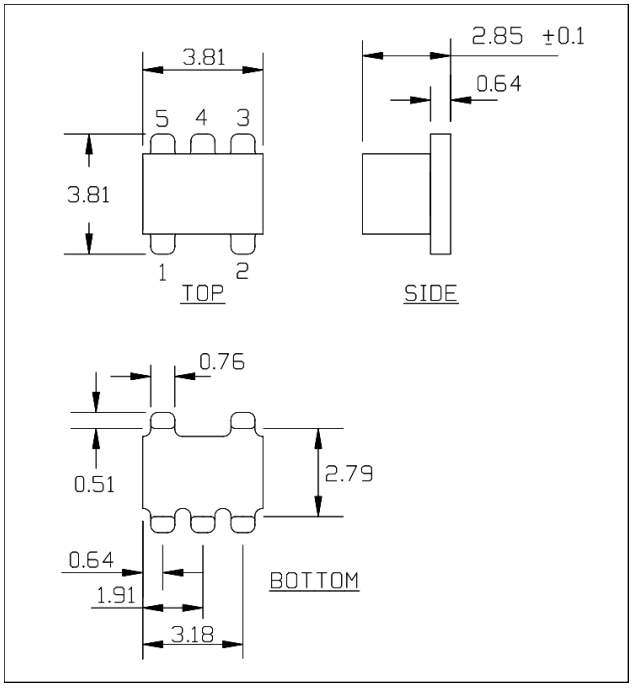
Amplitude Balance



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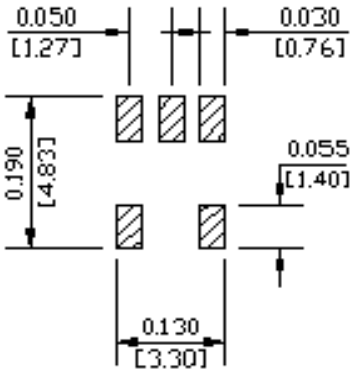
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Outline Drawing



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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