MABA-011031

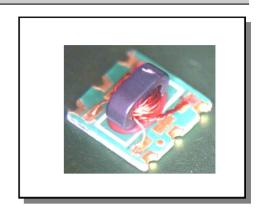


Transformer, 1:1 Transmission Line 5MHz - 1200MHz

Rev. V2

Features

- Surface mount
- 1:1 Impedance ratio
- 260°C reflow compatible
- RoHS* compliant, Pb-Free
- Available on tape and reel.



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

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	5		1200
Impedance		Ω		75	
Impedance Ratio				1:1	
Insertion Loss	5 - 1200MHz	dB	-	0.2	0.8
Amplitude Balance	5 - 1200MHz	dB	-0.9	0.7	0.9
Phase Balance	5 - 200MHz 200 - 1200MHz	0	-4.0 -9.0	3.0 7.0	4.0 9.0
Input Return Loss	5 - 200MHz 200 - 400MHz 400 - 1000MHz 1000 - 1200MHz	dB dB dB dB	20 18 16 14	21 23 20 20	

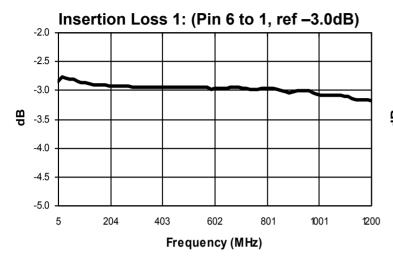
MABA-011031

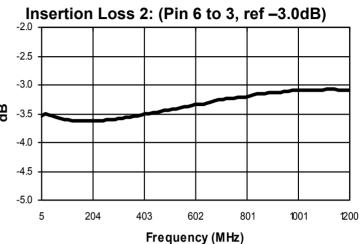


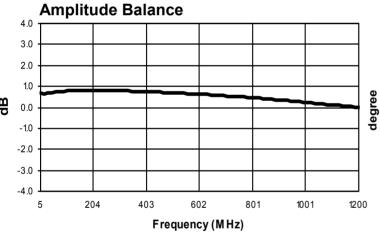
Transformer, 1:1 Transmission Line 5MHz - 1200MHz

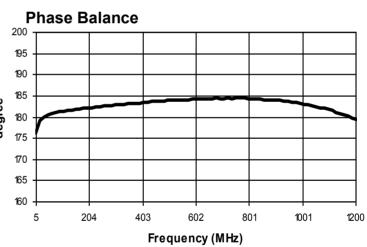
Rev. V2

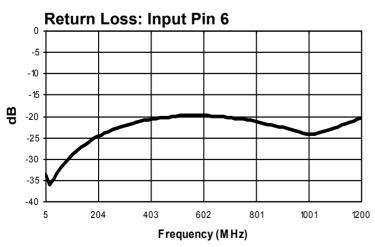
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm









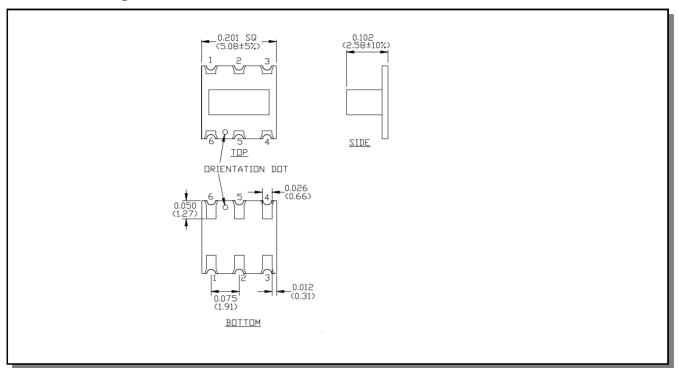




Transformer, 1:1 Transmission Line 5MHz - 1200MHz

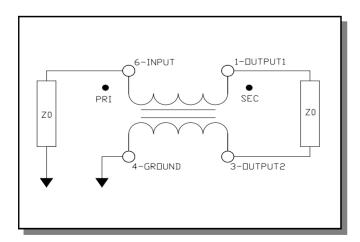
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Outline Drawing

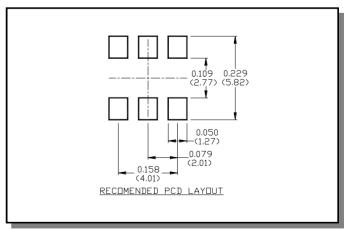


- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- 4. Plating finish: ENIG on both sides

Application Circuit



Recommended Footprint





Transformer, 1:1 Transmission Line 5MHz - 1200MHz

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Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel size	mm	330
Tape width (W)	mm	12.00
Pitch (P ₁)	mm	8.00
A ₀	mm	5.3
B ₀	mm	5.3
K ₀	mm	2.7
Orientation	-	F53
Reference Application note ANI-019 for orientation		

Ordering Information

Part Number	Description		
MABA-011031	Tape & Reel		

Recommended Maximum Ratings

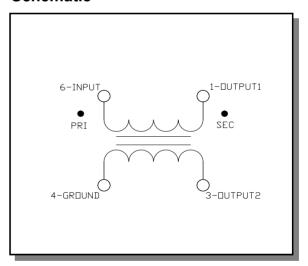
Parameter	Units	Min	Max
Input Power	mW		+24dBm (250mW)
DC Current	mA		30
Operating Temperature Range	°C	-40	+85

Temperature data available on request

Pin Configuration

Pin No.	Function	
1	Secondary Dot (output1)	
2	Not Used (Ground)	
3	Secondary (output2)	
4	Primary (ground)	
5	Not Used (Ground)	
6	Primary Dot	

Schematic



MABA-011031



Transformer, 1:1 Transmission Line 5MHz - 1200MHz

Rev. V2

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