1:1 Transmission Line Transformer 5 - 1200 MHz

Features

- Surface Mount Package
- 1:1 Impedance
- RoHS Compliant, Lead Free
- Available on Tape and Reel

Description

The MABA-009691-CT1881 is a 1:1 RF transmission line transformer in a surface mount package. Ideally suited for high volume CATV/ Broadband applications.

ORIENTATION DOT

Schematic

Pin Configuration

Pin No.	Function		
1	Secondary Dot		
2	Not connected (ground)		
3	Secondary		
4	Primary (ground)		
5	Primary dot		

Electrical Specifications: Freq. = 5 - 1200 MHz, $T_A = 25^{\circ}C$, $Z_0 = 75 \Omega$, $P_{IN} = 0 \text{ dBm}$

Parameter	Test Conditions	Units	Min.	Тур.	Max.
Insertion Loss 1	—	dB	—	0.2	0.8
Amplitude Unbalance (nom. 0 dB)	—	dB	—	0.7	±0.9
Phase Unbalance (nom. 180°)	5 - 200 MHz 200 - 1200 MHz	o		3 7	±4 ±9
Input Return Loss	5 - 200 MHz 200 - 400 MHz 400 - 1000 MHz 1000 - 1200 MHz	dB	20 18 16 14	21 23 20 20	

Ordering Information

Parameter	Package		
MABA-009691-CT1881	2000 piece reel		
MABA-009691-CT1881	Customer Test Board		

Absolute Maximum Ratings

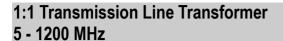
Parameter	Absolute Maximum		
RF Input Power	24 dBm, 250 mW		
DC Current	30 mA		
Operating Temperature	ture -40°C to +85°C		
Storage Temperature	-55°C to +100°C		

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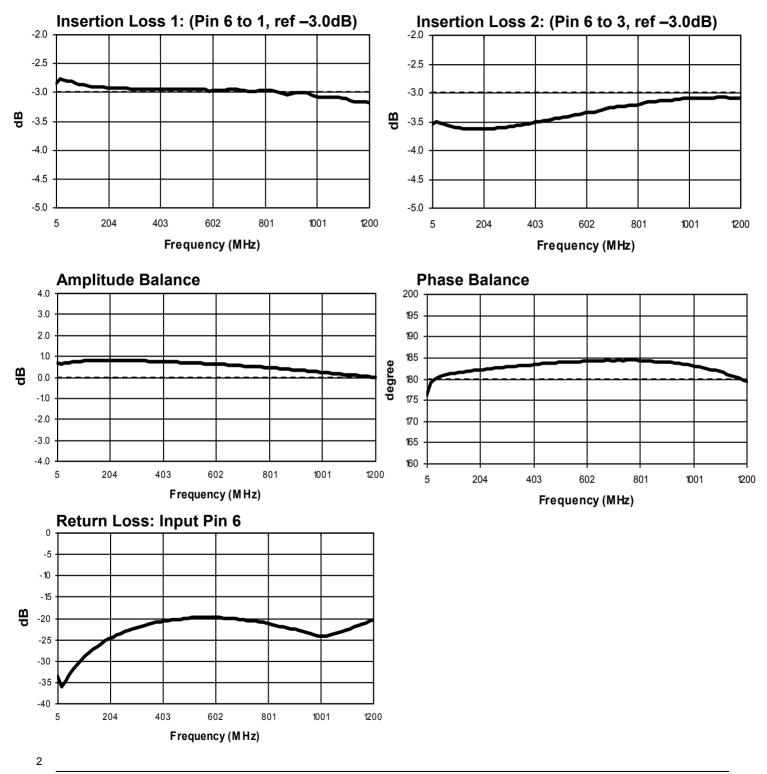
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Typical Performance: $T_A = 25^{\circ}C$, $Z_0 = 75 \Omega$, $P_{IN} = 0 \text{ dBm}$



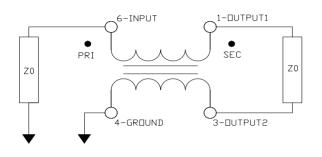
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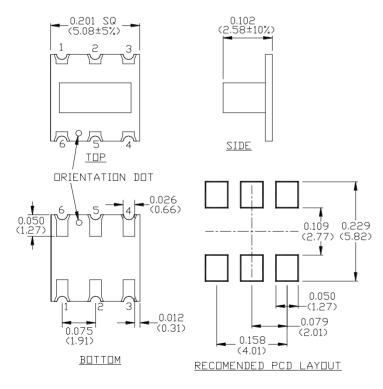
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Application Circuit



Case Style SM-136



Dimensions in inches [mm] Tolerance: .xx \pm 0.02, .xxx \pm 0.010, unless otherwise stated.

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Rev. V2

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