MABA-009691-CT1881



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

M/A-COM Products Rev. V1

Features

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

Description

M/A Com's MABA-009691-CT1881 is a 1:1 RF Transmission line transformer in a low cost, surface mount package. Ideally suited for broadband CATV applications.

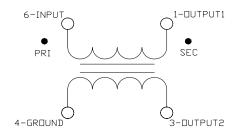


Pin Configuration

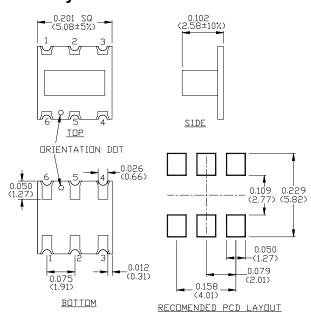
Function	
Secondary Dot	
Not connected (ground)	
Secondary	
Primary (ground)	
Not connected (ground)	
Primary dot	

Note: Reference Application Note M513 for reel size information.

Schematic



Case Style: SM-136



Dimensions in inches [mm] Tolerance: $.xx \pm .02$, $.xxx \pm .010$, unless otherwise stated

Ordering Information

Part number	Description
MABA-009691-CT1881	2000 piece reel
MABA-009691-CT18TB	Customer Test Board

^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

North America Tel: 800.366.2266
 India Tel: +91.80.4155721
 Europe Tel: +353.21.244.6400
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.

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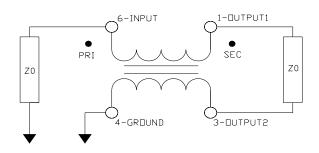
Electrical Specifications: $T_A = 25^{\circ}C$, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0dBm$

Parameter	Test Conditions	Units	Min	Тур	Max
Insertion Loss	5 - 1200 MHz	dB	-	0.2	0.8
Amplitude Unbalance (Nominal 0dB)	5 - 1200 MHz	dB	-	0.7	±0.9
Phase Unbalance (Nominal 180º)	5 - 200MHz 200 - 1200 MHz	0	-	3.0 7.0	±4 ±9
Input Return Loss	5 - 200 MHz 200 - 400 MHz 400 - 1000 MHz 1000 - 1200 MHz	dB dB dB dB	20 18 16 14	21 23 20 20	- - -

Recommended Maximum Ratings

Parameter	Value
Input power	+24dBm (250mW)
DC current	30mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C

Application Circuit



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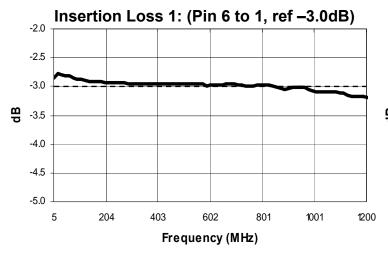
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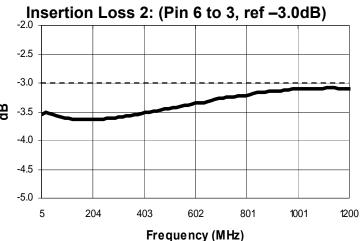


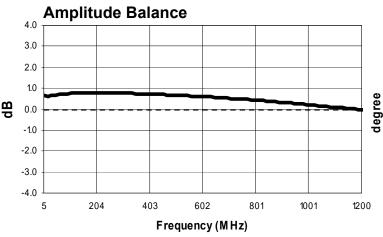
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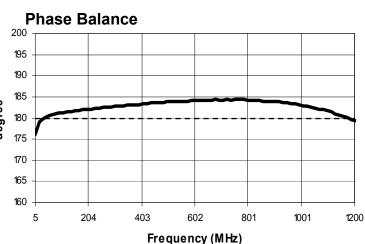
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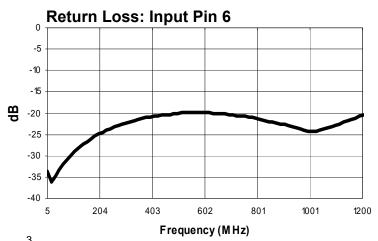
Typical Performance Curves: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm











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