RF 1:1 Transformer with Tap 50-1200 MHz



M/A-COM Products

Features

- Surface Mount.
- 1:1 impedance ratio.
- Wires welded to SOT carrier leads.
- Excellent amplitude and phase balance
- Available on Tape and Reel.

Description

M/A-Com's MABA-008979-CF0290 is a 1:1 RF transmission line transformer with a tap, in a low cost surface mount SOT package. Ideally suited for high volume CATV applications.



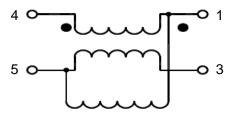
Pin Configuration

Pin No.	Function		
1	Output 1: Through (Secondary dot)		
2	Ground, not used		
3	Output 2: Coupled (Secondary)		
4	Input (Primary dot)		
5	5 Ground (Primary)		

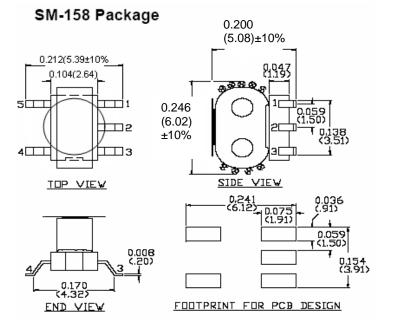
Ordering Information

Part Number	Package		
MABA-008979-CF0290	1500 piece reel		

Schematic



Case Style



 Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise specified.

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Electrical Specifications @25°C, 0dBM, 75 Ohms

Parameter	Test Conditions	Units	Min	Тур	Max
Frequency Range	50 - 1200 MHz	MHz		-	-
Insertion Loss 1: Pin 4-1 (Through)	50 - 600 MHz 600 -1200 MHz	dB dB	-	0.5 0.8	1.0 1.5
Insertion Loss 2: Pin 4-3 (Coupled)	50 - 600 MHz 600 -1000 MHz 1000 -1200 MHz	dB dB dB	- - -	0.5 1.2 1.5	1.0 1.5 2.0
Amplitude Imbalance	50 - 600 MHz 600 -1200 MHz	dB dB	-	0.1 0.0	0.3 1.0
Phase Imbalance	50 - 600 MHz 600 -1000 MHz 1000 -1200 MHz	Degrees Degrees Degrees	- - -	1 4 11	3 10 13

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute Maximum		
RF Power	250mW		
Current DC	50 mA		
Current RMS	10 mA		
Current P-P for 1hr	80 mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-40°C to +85°C		

- 1. Exceeding any one or combination of these limits may cause permanent damage to this device.
- M/A-COM does not recommend sustained operation near these survivability limits.

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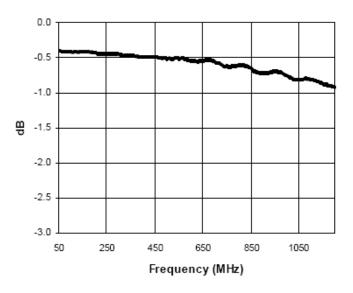
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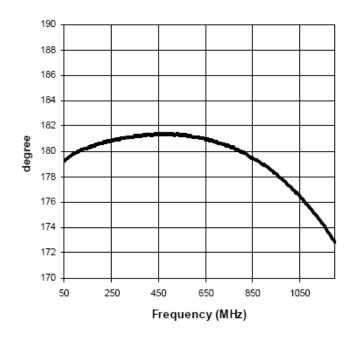


Typical Performance @ +25°C, 75 Ohms

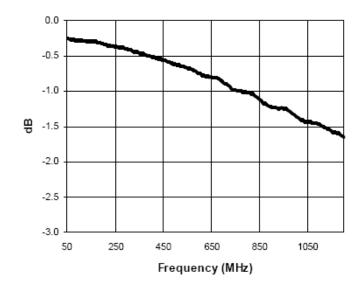
Insertion Loss Pin 4-1



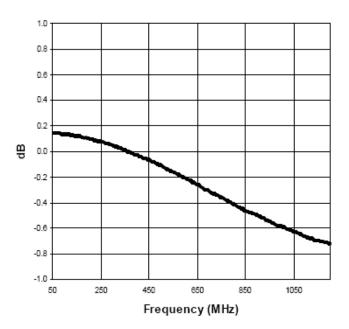
Phase Imbalance



Insertion Loss Pin 4-3



Amplitude Imbalance



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