

Transformer, 1:1 45 MHz - 1200 MHz

Rev. V1

Features

- ♦ 1:1 impedance ratio
- ♦ Surface mount
- Available on tape and reel
- ♦ 260°C reflow compatible
- ◆ RoHS Compliant and Pb free
- Excellent temperature stability
- \bullet Can be used on 50Ω and 75Ω systems
- ◆ Suitable for all CATV, Broadband and FTTx applications.



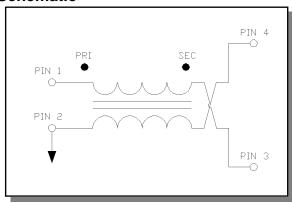
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^{\circ}C$, $P_{in} = 0$ dBm

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	45		1200
Impedance		Ω		75	
Impedance Ratio				1:1	
Insertion Loss (pin1-pin4)	45 - 100 MHz 100 - 600 MHz 600 - 1200 MHz	dB dB dB	- - -	0.50 0.55 0.60	0.6 0.8 1.1
Insertion Loss (pin1-pin3)	45 - 100 MHz 100 - 600 MHz 600 - 1200 MHz	dB dB dB	- - -	-0.10 0.20 0.70	0.0 0.7 1.3
Amplitude Balance	45 - 600 MHz 600 - 1200 MHz	dB dB	-	0.5 0.2	±0.8 ±0.8
Phase Balance (ref 180 deg)	45 - 600 MHz 600 - 1200 MHz	degree degree		3 4	±6 ±8
Input Return Loss (pin1)	45 - 150 MHz 150 - 600 MHz 600 - 1200 MHz	dB dB dB	20 17 12	33 23 15	- - -

Pin Configuration

Pin No.	Function	
1	Primary Dot	
2	Primary	
3	Secondary Dot	
4	Secondary	

Schematic



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

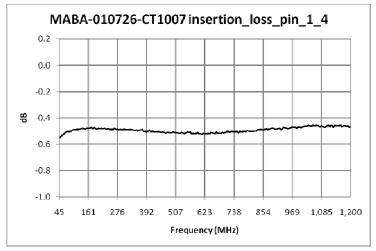
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in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

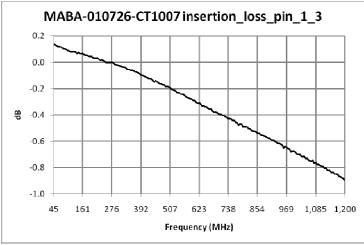
North America Tel: 800.366.2266
 India Tel: +91.80.43537383
 Europe Tel: +353.21.244.6400
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.

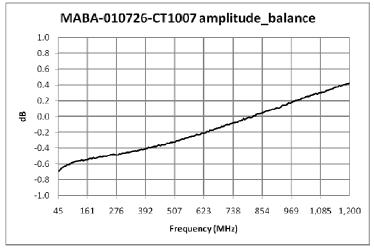


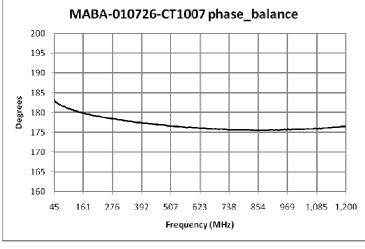
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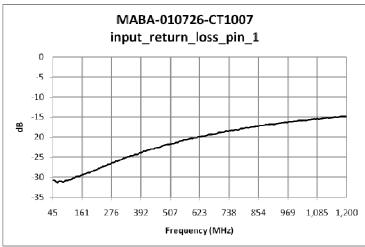
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Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

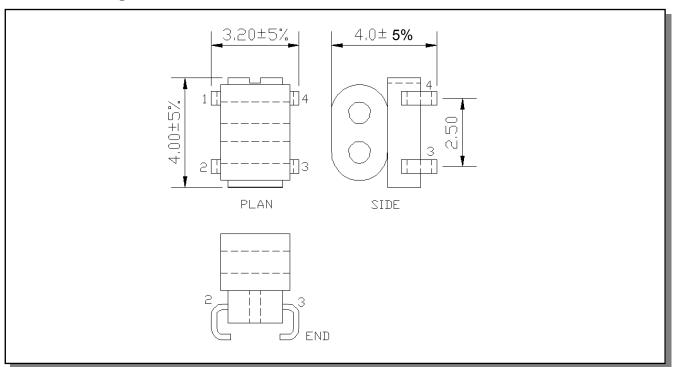
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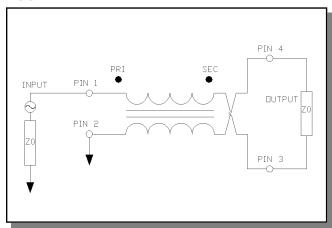
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Outline Drawing

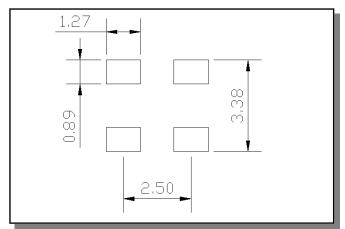


- Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- 4. Plating finish: CuSn6

Application Circuit



Recommended Footprint





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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	3.5		
B ₀	mm	4.3		
K ₀	mm	4.2		
Orientation	-	F48		
Reference Application note ANI-019 for orientation				

Ordering Information

Part Number	Description		
MABA-010726-CT1007	Tape & Reel		
MABA-010726-CT10TB	Customer Evaluation Board		

Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+85
Storage Temperature Range	°C	-55	+125

Temperature data available on request