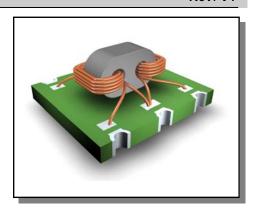


Coupler, 10dB 5 MHz - 1200 MHz

Rev. V1

Features

- ♦ 10dB coupling 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.



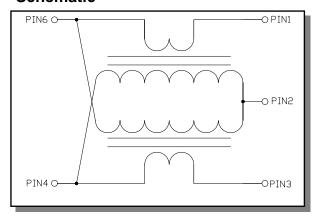
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	5		1200
Impedance		Ω		75	
Coupling Ratio		dB		10	
Coupling (Pin 3 to 1)	5 - 1200 MHz	dB	-	10.0	±0.5
Main Line Loss (Pin 3 to 4)	5 - 500 MHz 500 - 1200 MHz	dB dB	-	1.1 1.3	1.2 1.6
Isolation (Pin 3 to 6)	5 - 1000 MHz 1000 - 1200 MHz	dB dB	20 18	22 21	-
Return Loss: Input (Pin 3)	5 - 1200 MHz	dB	17	27	-
Return Loss: Coupling (Pin 1)	5 - 1200 MHz	dB	17	26	-
Return Loss: Output (Pin 4)	5 - 1000 MHz 1000 - 1200MHz	dB dB	20 17	23 20	-

Pin Configuration

Pin No.	Function	
1	Coupled	
2	Ground	
3	Input	
4	Output	
5	Not Connected (ground)	
6	Isolated	

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

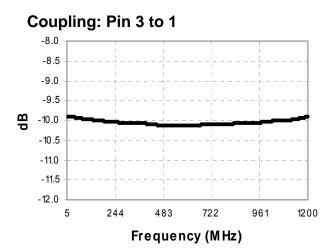
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in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

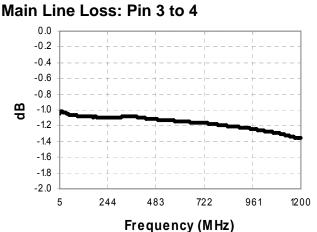
North America Tel: 800.366.2266
 India Tel: +91.80.43537383
 Europe Tel: +353.21.244.6400
 China Tel: +86.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.



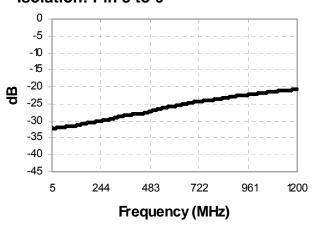
Coupler, 10dB 5 MHz - 1200 MHz

Rev. V1

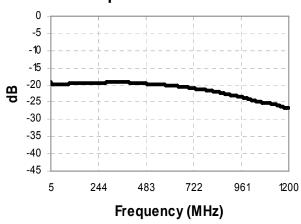




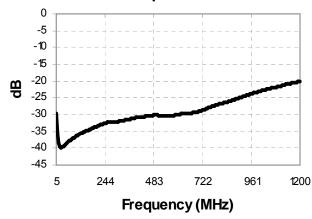
Isolation: Pin 3 to 6



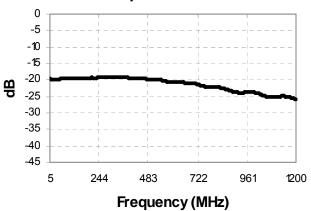
Return Loss: Input Pin 3



Return Loss: Output Pin 4



Return Loss: Coupled Pin 1



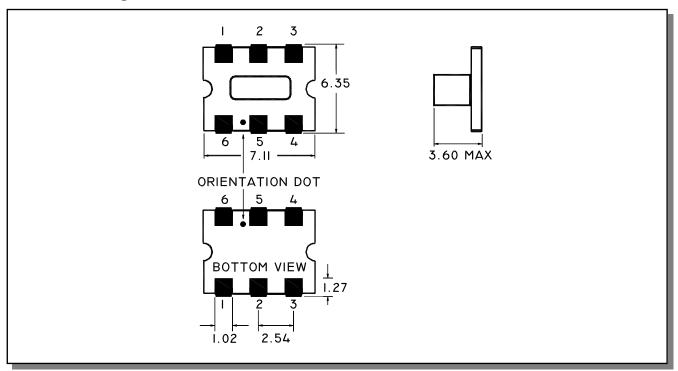
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm



Coupler, 10dB 5 MHz - 1200 MHz

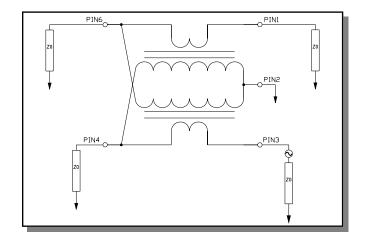
Rev. V1

Outline Drawing

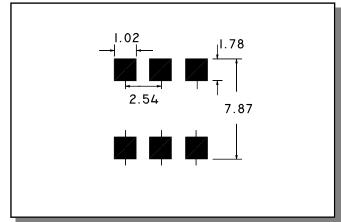


- Dimensions in mm.
- Tolerance: ±0.2mm unless otherwise noted.
- Model number and lot code printed on reel. 3.
- Plating Finish: ENIG gold on Nickel

Application Circuit



Recommended Footprint



• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400 • India Tel: +91.80.43537383 • China Tel: +86.21.2407.1588



Coupler, 10dB 5 MHz - 1200 MHz

Rev. V1

Tape & Reel Information

Parameter	Units	Value	
Qty per reel	-	900	
Reel size	mm	330	
Tape width (W)	mm	16.0	
Pitch (P ₁)	mm	12.0	
A ₀	mm	6.7	
B ₀	mm	7.4	
K ₀	mm	3.1	
Orientation	-	F15	
Reference Application Note ANI-019 for orientation			

Ordering Information

Part Number	Description
MACP -010414-CA0370	Tape & Reel
MACP -010414-CA03TB	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

ECO History

Rev	Date	Description	ECO
V1	18 Aug 2010	Released	20101117

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.

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