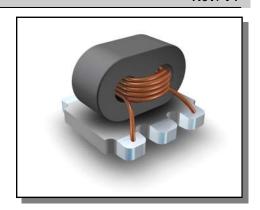


Coupler, 17dB 5 MHz - 120 MHz

Rev. V1

Features

- ♦ 17dB 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.



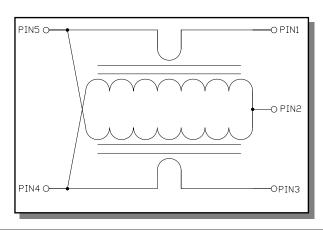
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	5		120
Impedance		Ω		75	
Coupling Ratio		dB		17	
Coupling	5 - 120 MHz	dB	-	17	±1.0
Coupling Flatness	5 - 120 MHz	dB	-	-	±0.4
Main Line Loss	5 - 120 MHz	dB	-	0.45	8.0
Directivity	5 - 120 MHz	dB	16	21	-
Input Return Loss	5 - 120 MHz	dB	20	25	-
Output Return Loss	5 - 120 MHz	dB	20	23	-
Coupling Return Loss	5 - 120 MHz	dB	20	25	-

Pin Configuration

Pin No.	Function	
1	Output	
2	Ground	
3	Isolated	
4	Coupled	
5	Input	

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

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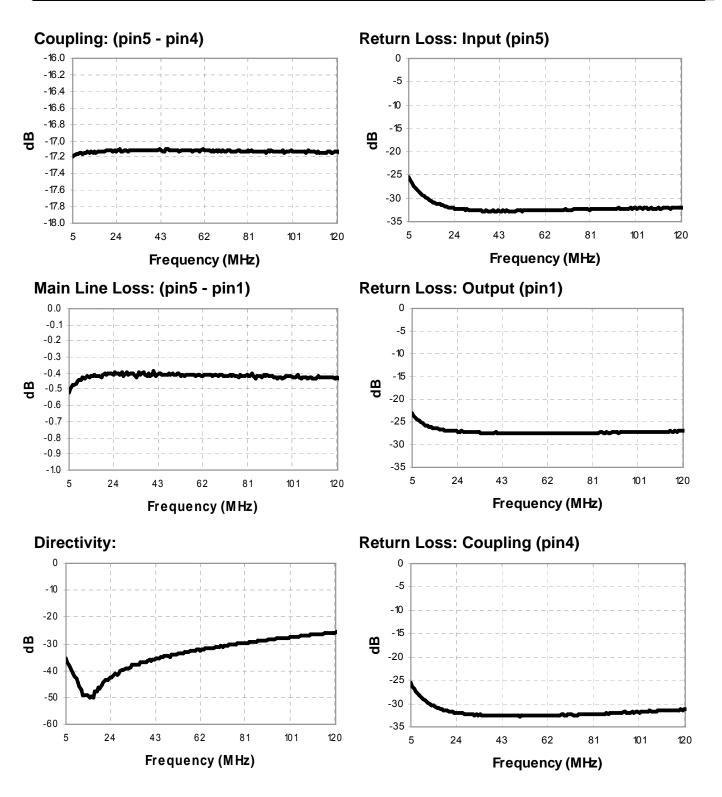
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Coupler, 17dB 5 MHz - 120 MHz

Rev. V1



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

typical. Mechanical outline has been fixed. Englished

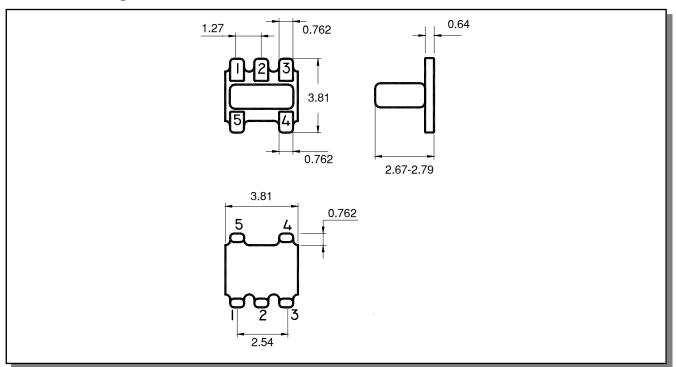
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Coupler, 17dB 5 MHz - 120 MHz

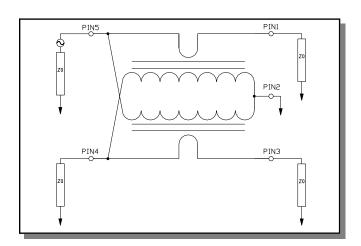
Rev. V1

Outline Drawing

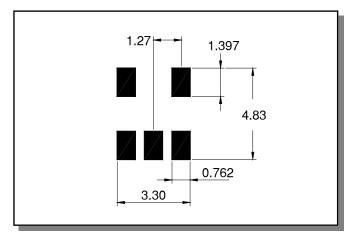


- Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- Plating finish: ENIG on both sides, 0.05 to 0.1 µm gold over 3 to 6 µm nickel

Application Circuit



Recommended Footprint



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Coupler, 17dB 5 MHz - 120 MHz

Rev. V1

Tape & Reel Information

Parameter	Units	Value	
Qty per reel	-	2000	
Reel size	mm	330	
Tape width (W)	mm	12.0	
Pitch (P ₁)	mm	8.0	
A ₀	mm	4.0	
B ₀	mm	4.0	
K ₀	mm	2.9	
Orientation	-	F5	
Reference Application note ANI-019 for orientation			

Ordering Information

Part Number	Description
MACP-010507-CH0160	Tape & Reel
MACP-010507-CH01TB	Customer Evaluation Board

Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		30
Operating Temperature Range	°C	-40	+85
Storage Temperature Range	°C	-55	+125

Temperature data available on request

ECO History

Rev	Date	Description	ECO	
V1	26 Oct 2010	Released	20101749	

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