



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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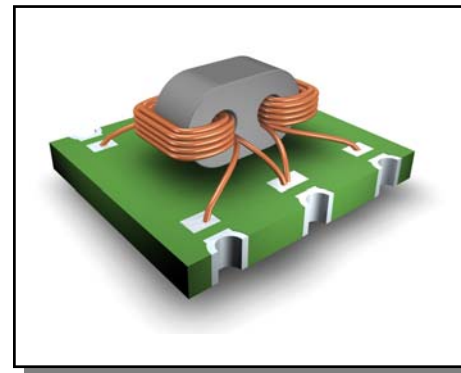
MACP-010414-CA0370

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
- ◆ Can be used on 50Ω and 75Ω systems
- ◆ Suitable for all CATV, Broadband and FTTx applications.



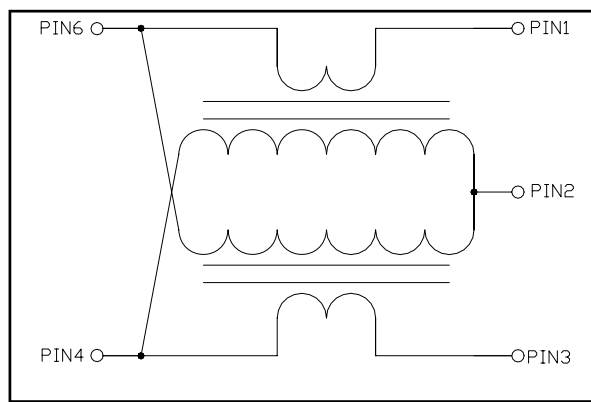
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	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	dB	-	1.1	1.2
	500 - 1200 MHz	dB	-	1.3	1.6
Isolation (Pin 3 to 6)	5 - 1000 MHz	dB	20	22	-
	1000 - 1200 MHz	dB	18	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	dB	20	23	-
	1000 - 1200MHz	dB	17	20	-

Pin Configuration

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

Schematic



1

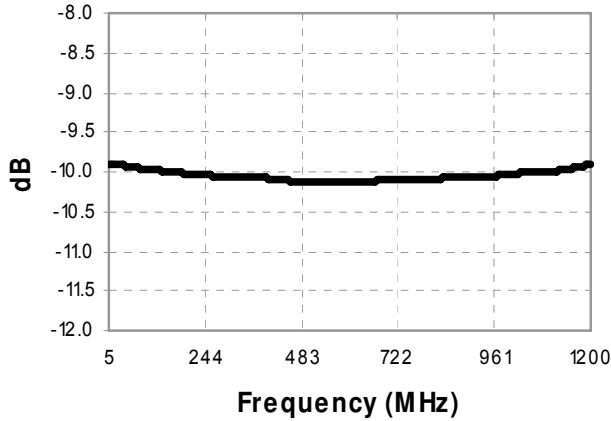
ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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.

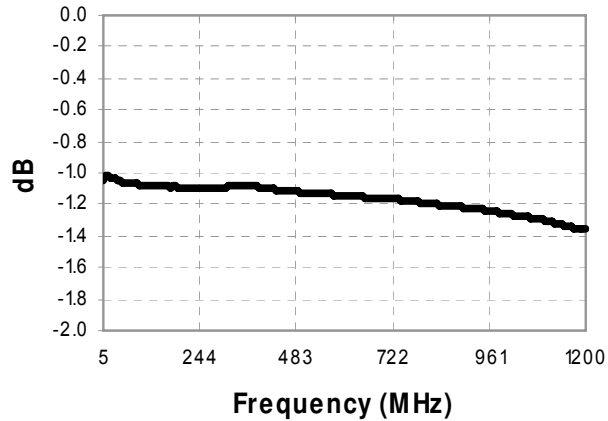
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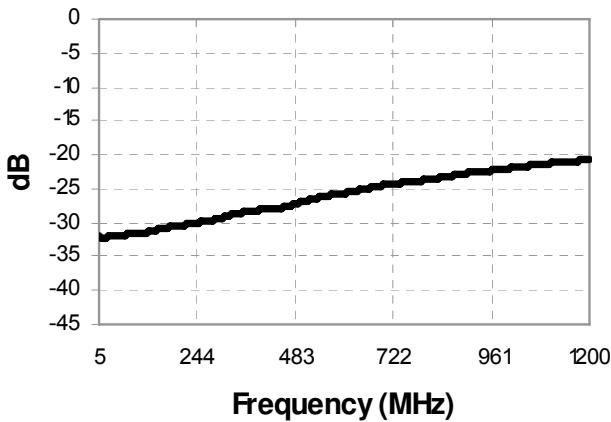
Coupling: Pin 3 to 1



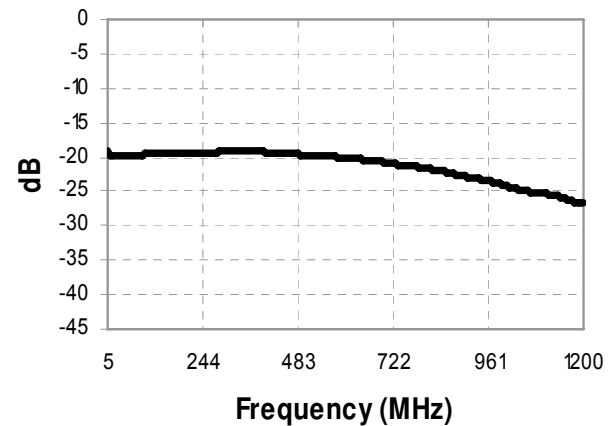
Main Line Loss: Pin 3 to 4



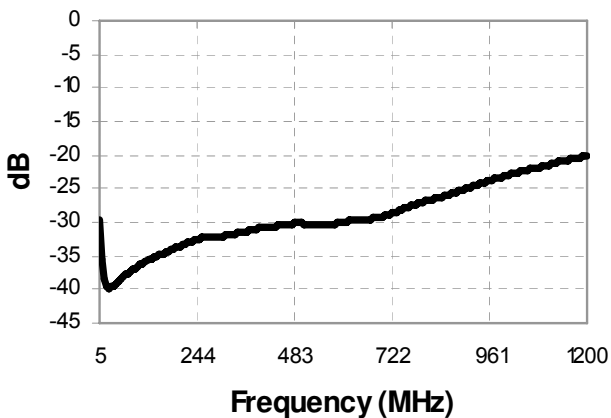
Isolation: Pin 3 to 6



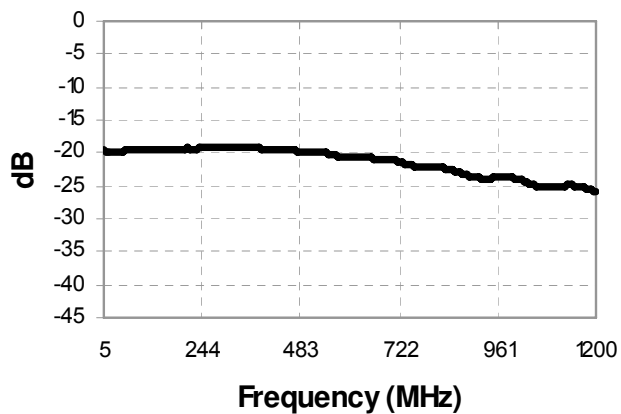
Return Loss: Input Pin 3



Return Loss: Output Pin 4

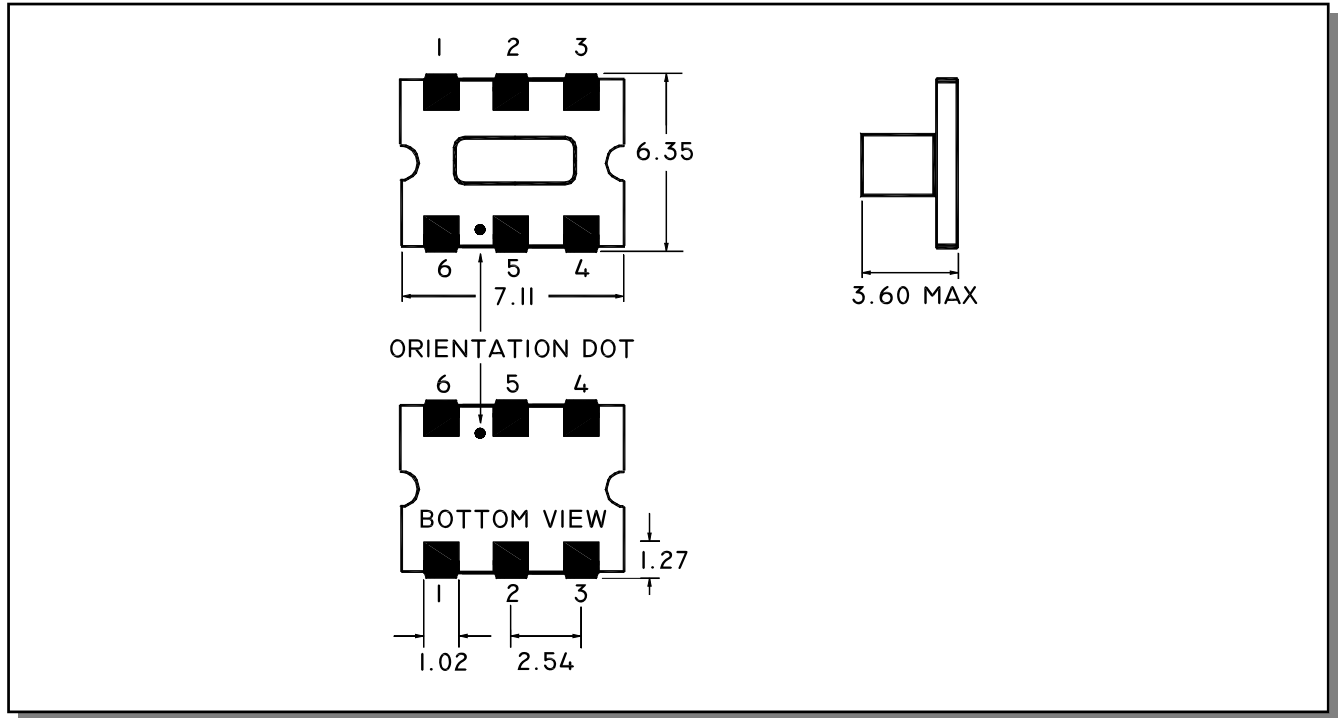


Return Loss: Coupled Pin 1



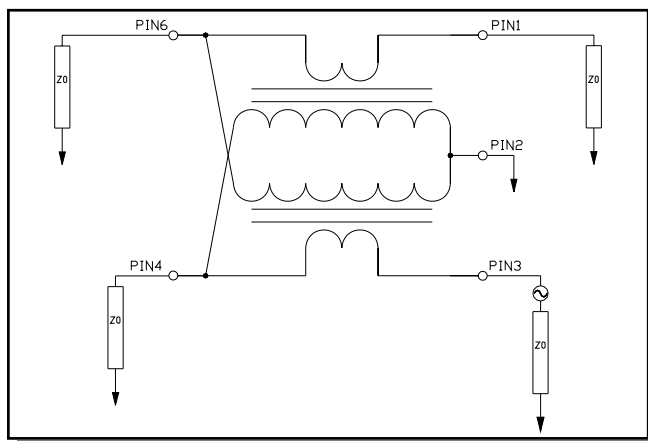
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Outline Drawing

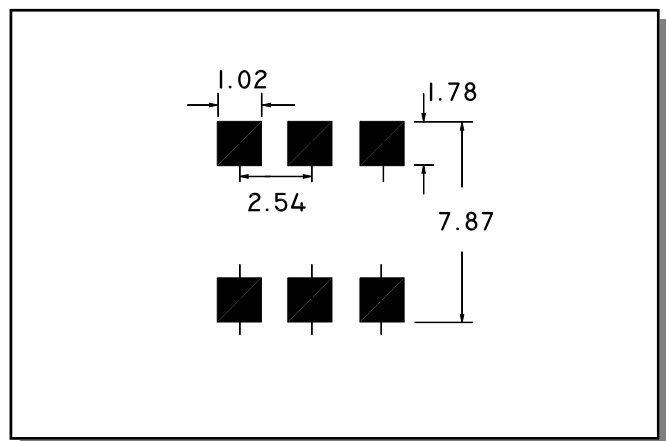


1. Dimensions in mm.
2. Tolerance: $\pm 0.2\text{mm}$ unless otherwise noted.
3. Model number and lot code printed on reel.
4. Plating Finish: ENIG gold on Nickel

Application Circuit



Recommended Footprint



MACP-010414-CA0370



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