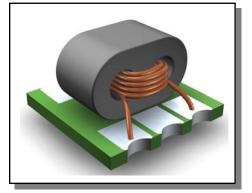
Coupler, 15dB 4 MHz - 862 MHz

Features

- ♦ 15dB Coupler
- Surface mount
- Available on tape and reel
- ♦ 260°C reflow compatible
- RoHS Compliant and Pb free
- Excellent temperature stability



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

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	4		862
Impedance		Ω	-	75	
Coupling	4 - 862 MHz	dB	-	15	±1.0
Main Line Loss	4 - 862 MHz	dB	-	0.7	1.0
Input Return Loss	4 - 862 MHz	dB	18	30	-
Output Return Loss	4 - 862 MHz	dB	18	22	-
Coupled Return Loss	4 - 862 MHz	dB	18	24	-
Isolation	4 - 862 MHz	dB	28	33	-

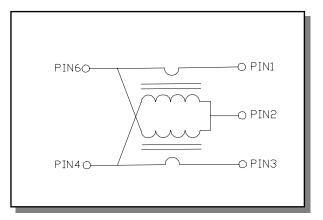
Pin Configuration

Pin No.	Function	
1	Input	
2	Ground	
3	Coupled	
4	Isolated, External 75Ω	
6	Output	

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,

Schematic



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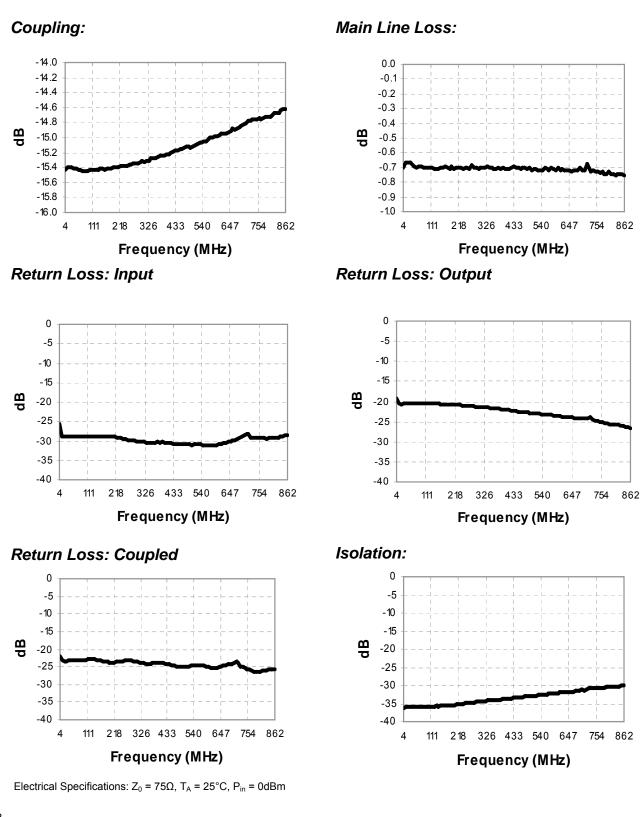
Rev. V2

and/or prototype measurements. Commitment to develop is not guaranteed. **PRELIMINARY:** Data Sheets contain information regarding a product M/A-COM Technology Visit www.macomtech.com for additional data sheets and product information. Solutions has under development. Performance is based on ending ering test. Specifications are M A-CONTTechnology Solutions life: and its affiliates reserve the right to make of an jets to the product(s) of information of mained herein without notice. typical. Mechanical outline has been fixed. Ergin ernn. Commitment to produce in volume is not pugranteed ample

Coupler, 15dB 4 MHz - 862 MHz



Technology Solutions

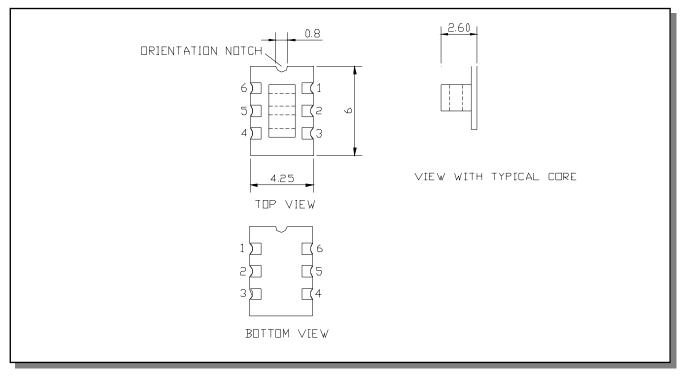


2



Coupler, 15dB 4 MHz - 862 MHz

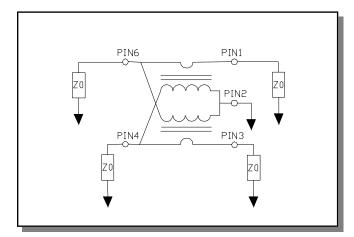
Outline Drawing



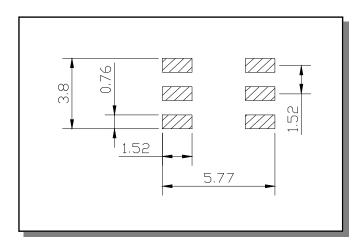
1. Dimensions in mm.

- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code are printed on the reel.
- 4. Finish: Electreless nickel immersion gold

Application Circuit



Recommended Footprint



3





Rev. V2



Coupler, 15dB 4 MHz - 862 MHz

Tape & Reel Information

Parameter	Units	Value	
Qty per reel	-	2000	
Reel Size	mm	330	
Tape Width	mm	16.00	
Pitch	mm	8.00	
Ao	mm	4.5	
Во	mm	6.4	
Ко	mm	3.2	
Orientation	-	F45	
Reference Application Note ANI-019 for orientation			

Ordering Information

Part Number	Description
MACP -010382-CF0A40	Tape & Reel
MACP -010382-CF0ATB	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

Full temperature plots available on request

ECO History

Rev	Date	Description	ECN NO.
V1	24 August 2010	datasheet	20101170
V2	07 Oct, 2010	component outline drawing corrected	20101613

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