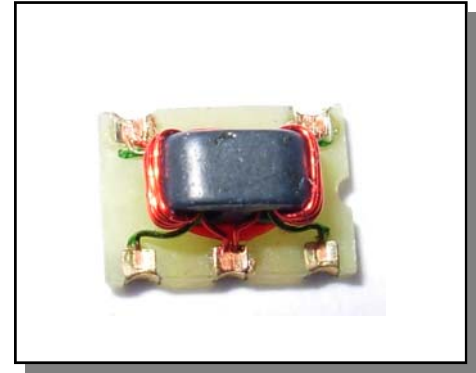


Coupler, 14dB
5 MHz - 2400 MHz

Rev. V1

Features

- Coupling 14dB Typical
- Surface mount
- low profile
- 260°C reflow compatible
- Excellent Return Loss
- Available on Tape & Reel
- RoHS compliant, lead free



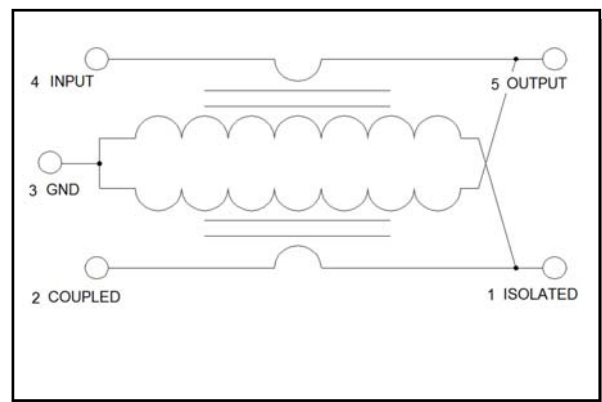
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	5		2400
Impedance		Ω		75	
Main Line Loss	5 - 1500 MHz	dB	-	0.93	1.3
	1500 - 2400 MHz	dB	-	1.3	2.0
Coupling	5 - 2400 MHz	dB	12.8	14	15.2
Coupling Flatness	-	dB	-	-	1.5
Isolation	5 - 1000 MHz	dB	25	30	-
	1000 - 2400 MHz	dB	20	25	-
Input Return Loss	5 - 1000 MHz	dB	15	18	-
	1000 - 2400 MHz	dB	10	20	-
Output Return Loss	5 - 2400 MHz	dB	15	25	-
Coupling Return Loss	5 - 2400 MHz	dB	15	25	-

Pin Configuration

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

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 test. 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 • **Europe** Tel: +353.21.244.6400

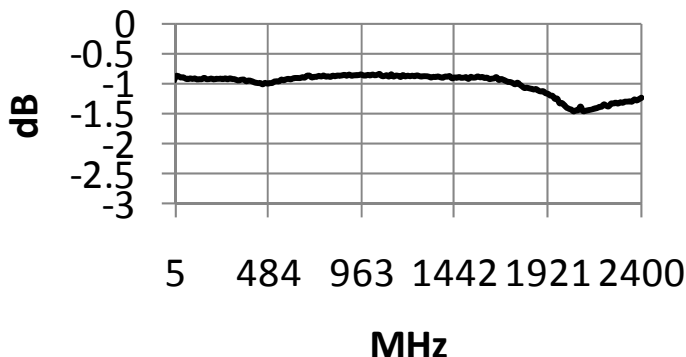
• **India** Tel: +91.80.43537383

• **China** Tel: +86.21.2407.1588

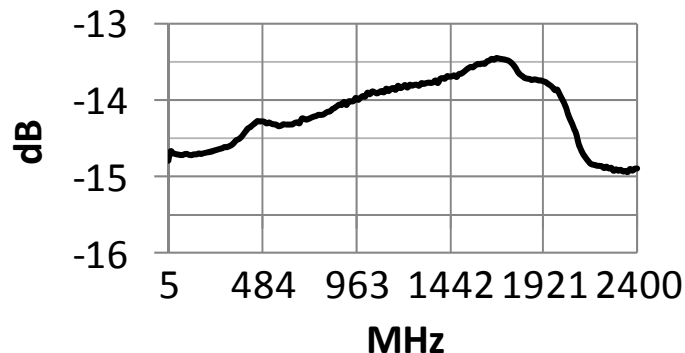
Visit www.macomtech.com for additional data sheets and product information.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

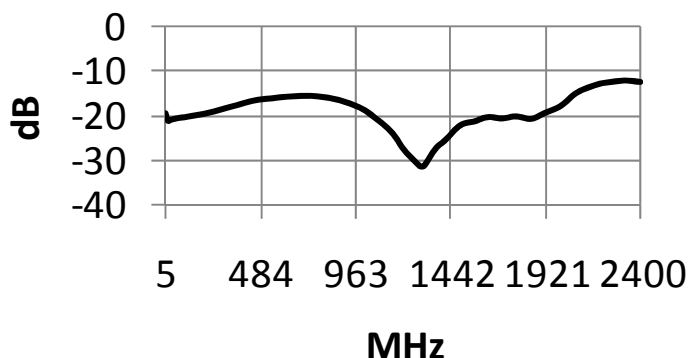
Main Line Loss :



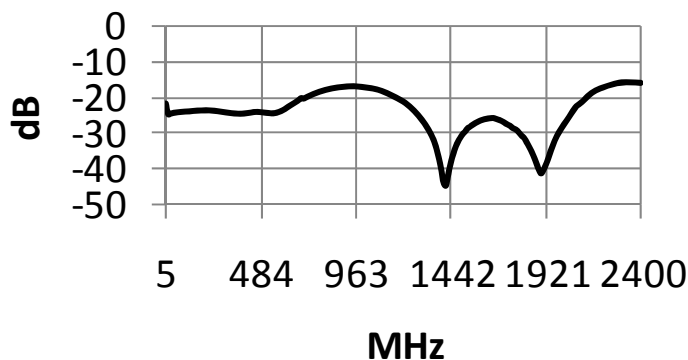
Coupling:



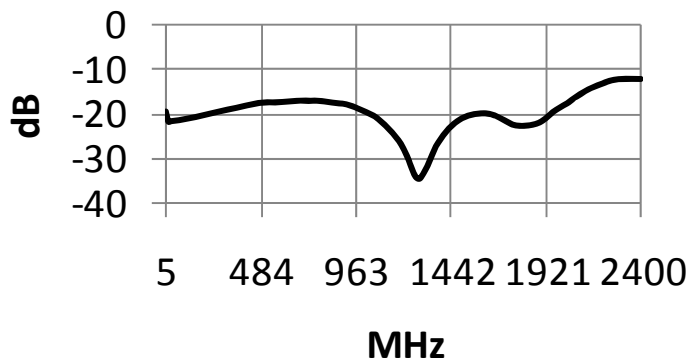
Input Return Loss:



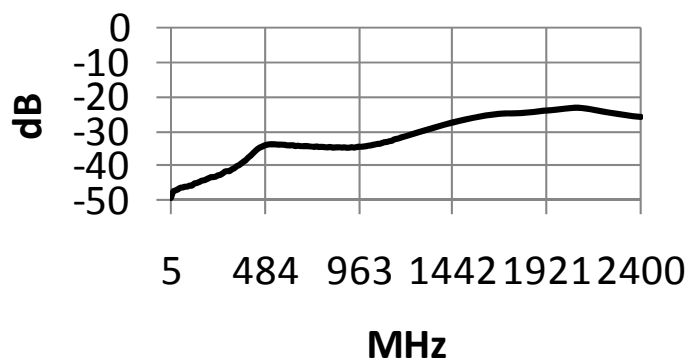
Output Return Loss:



Coupled Return Loss:

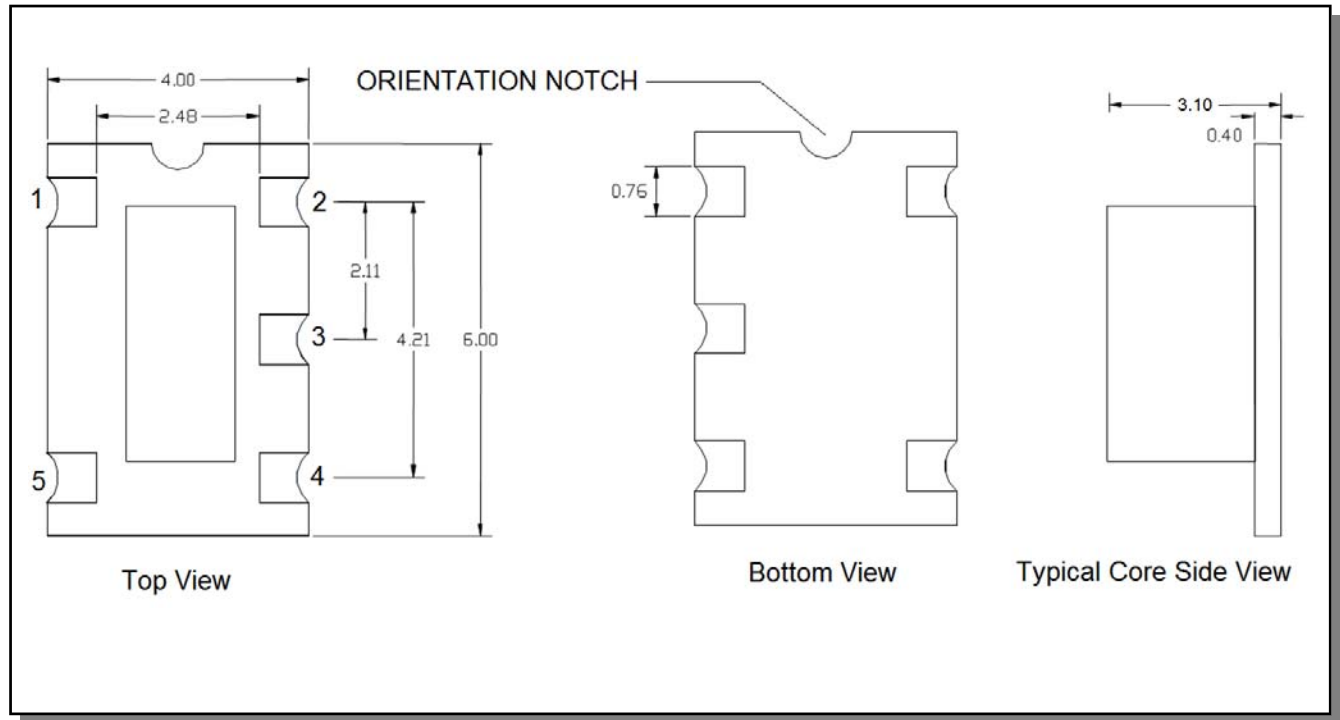


Isolation:



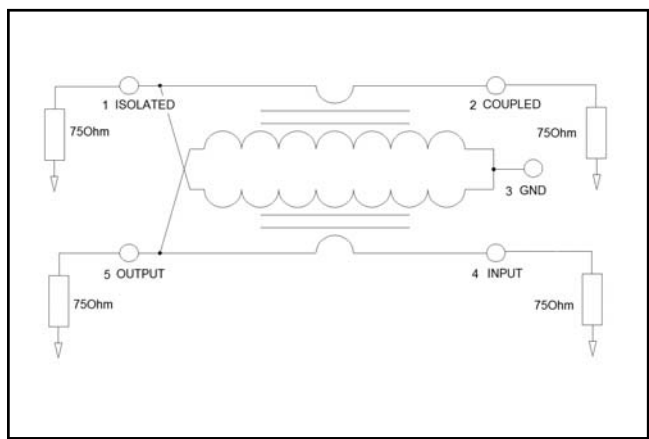
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Outline Drawing

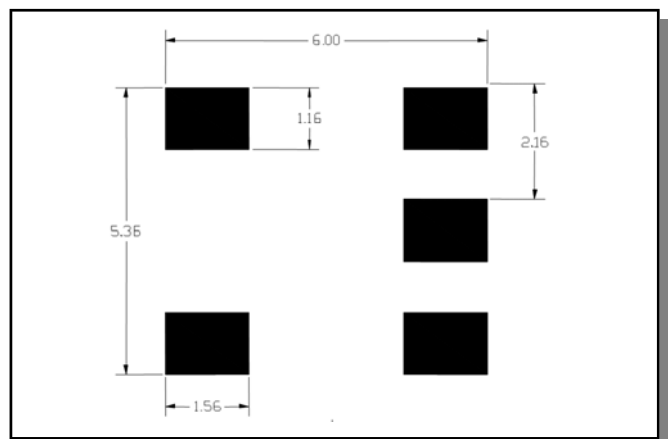


1. Dimensions in mm.
2. Tolerance: $\pm 0.2\text{mm}$ unless otherwise noted.
3. Model number and lot code printed on reel.
4. Finish: Electroless Nickel Immersion Gold.

Application Circuit



Recommended Footprint



Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel size	mm	330
Tape width (W)	mm	16.0
Pitch (P ₁)	mm	8.0
A ₀	mm	4.3
B ₀	mm	6.3
K ₀	mm	3.2
Orientation	-	F45
Reference Application Note ANI-019 for orientation		

Ordering Information

Part Number	Description
MACP-010385-CE0880	Tape & Reel

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	2010-9-6	New release	20101296