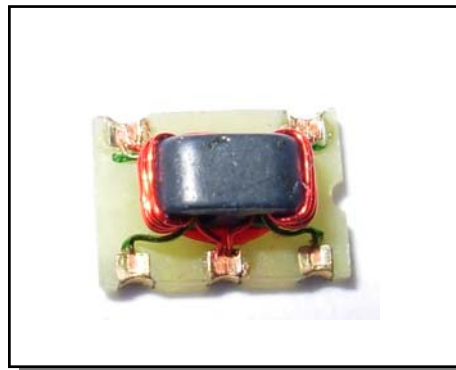


Coupler, 14dB  
5 MHz - 2400 MHz

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



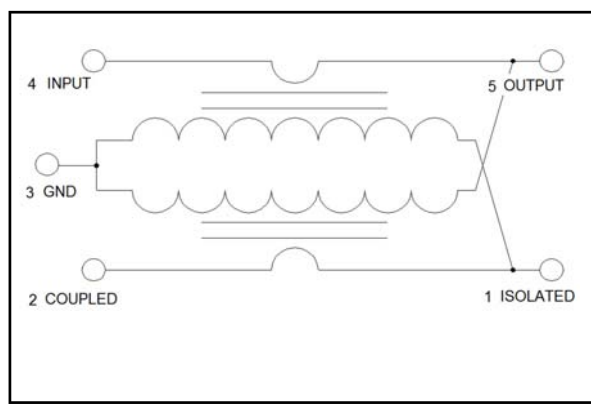
**Electrical Specifications:**  $Z_0 = 75\Omega$ ,  $T_A = 25^\circ\text{C}$ ,  $P_{in} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	5		2400
Impedance		$\Omega$		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	-

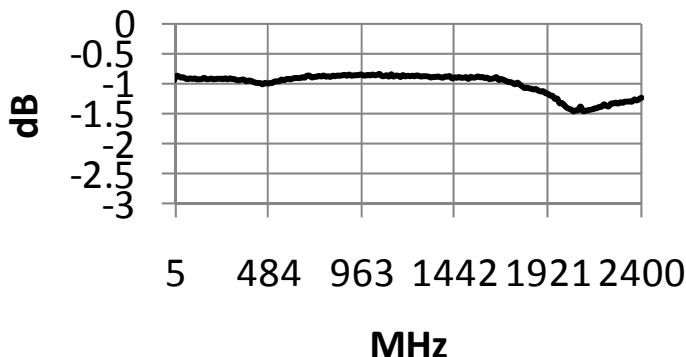
## Pin Configuration

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

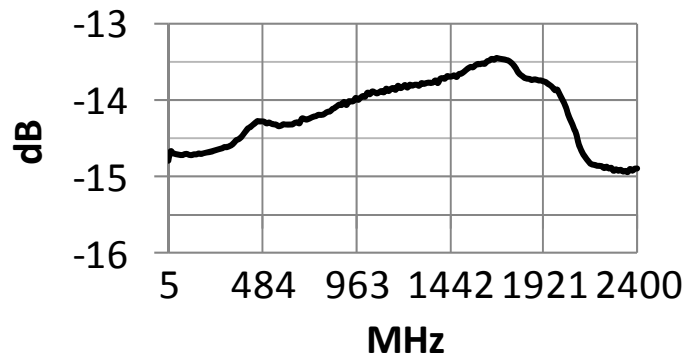
## Schematic



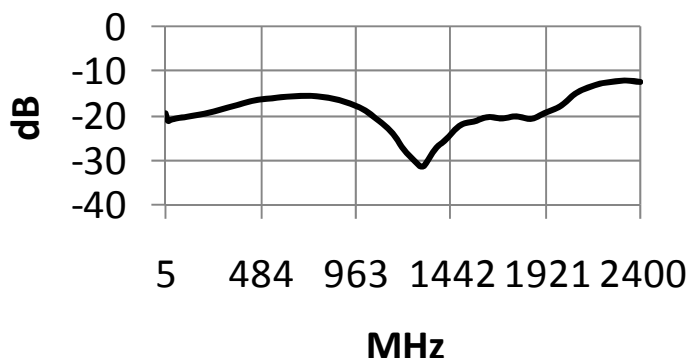
**Main Line Loss :**



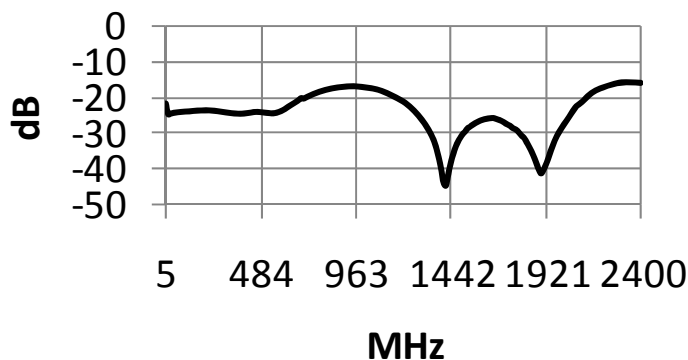
**Coupling:**



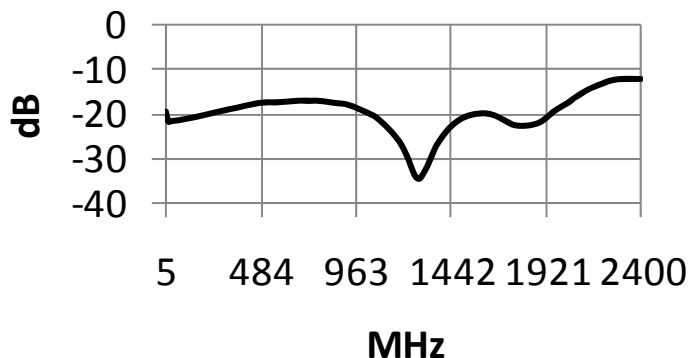
**Input Return Loss:**



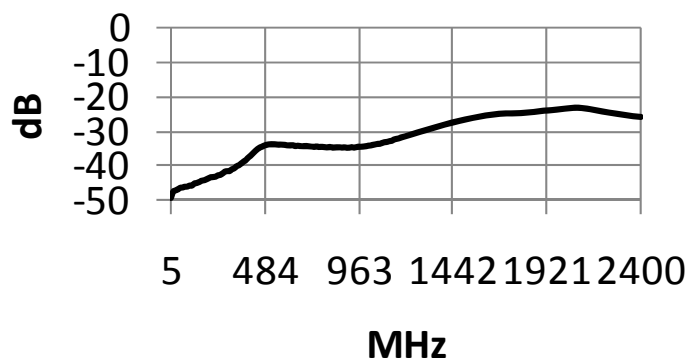
**Output Return Loss:**



**Coupled Return Loss:**

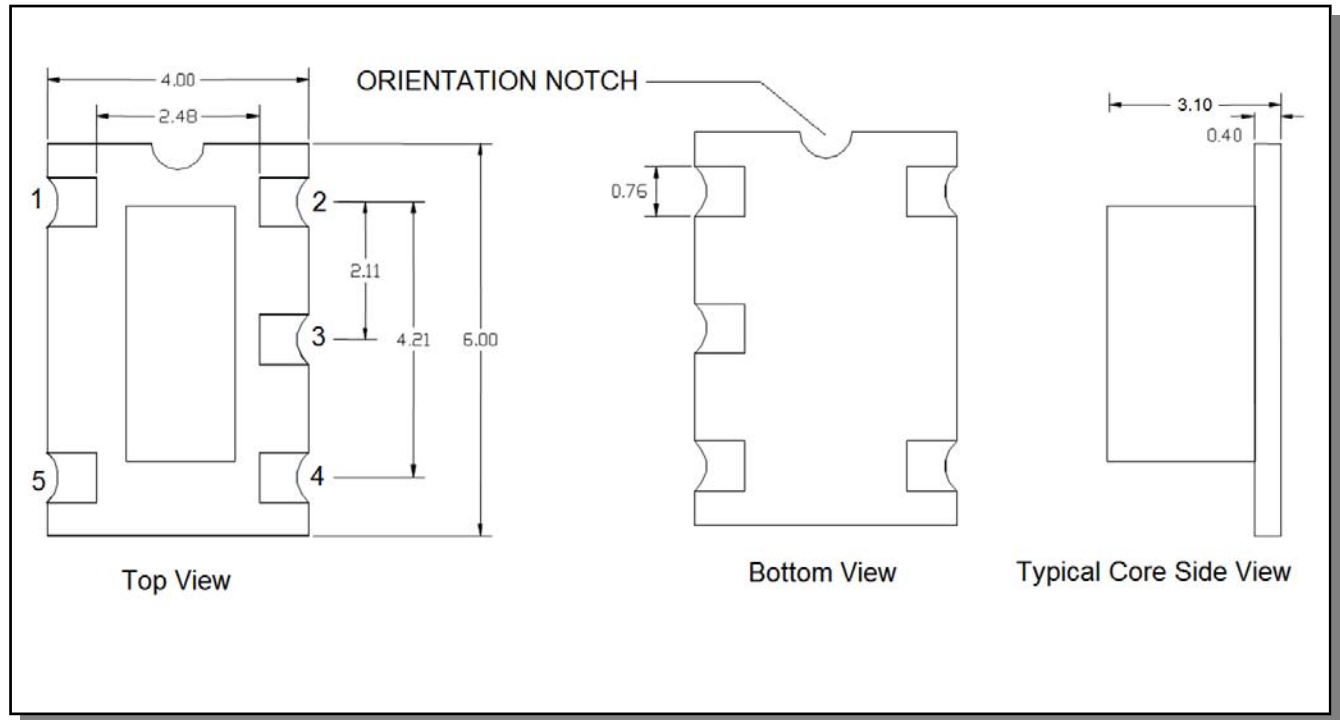


**Isolation:**



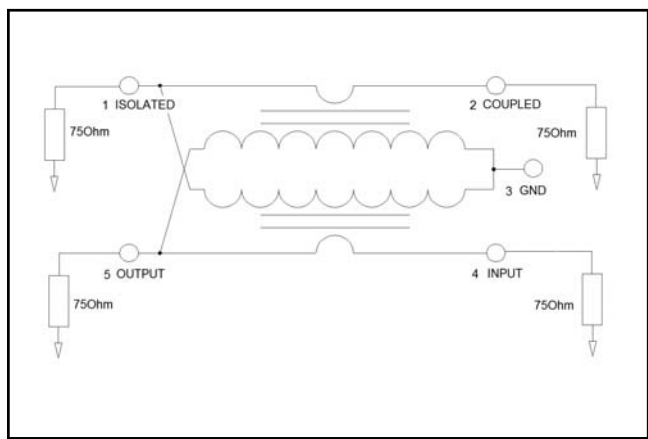
Electrical Specifications:  $Z_0 = 75\Omega$ ,  $T_A = 25^\circ\text{C}$ ,  $P_{in} = 0\text{dBm}$

## Outline Drawing

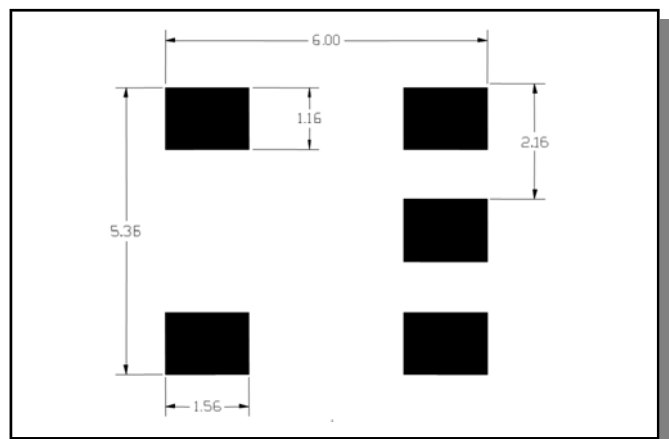


1. Dimensions in mm.
2. Tolerance:  $\pm 0.2\text{mm}$  unless otherwise noted.
3. Model number and lot code printed on reel.
4. Finish: Electroless Nickel Immersion Gold.

## 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 <sub>1</sub> )	mm	8.0
A <sub>0</sub>	mm	4.3
B <sub>0</sub>	mm	6.3
K <sub>0</sub>	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