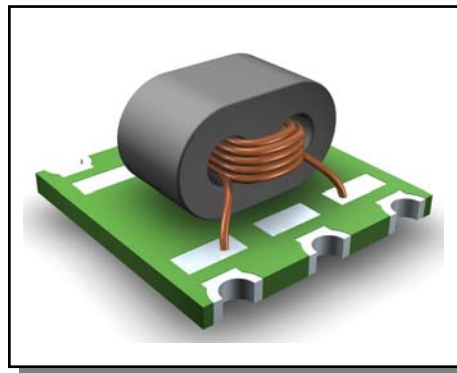


Coupler, 14dB
4 MHz - 862 MHz

Rev. V2

Features

- ◆ 14dB Coupler
- ◆ Surface mount
- ◆ Available on tape and reel
- ◆ 260°C reflow compatible
- ◆ RoHS Compliant and Pb free
- ◆ Excellent temperature stability



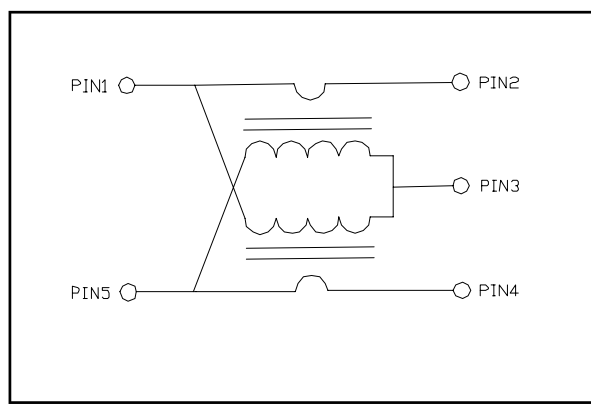
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	4		862
Impedance		Ω	-	75	
Coupling	4 - 862 MHz	dB	-	14	± 2.2
Main Line Loss	5 - 862 MHz	dB	-	0.95	1.2
Input Return Loss	4 - 862 MHz	dB	18	24	-
Output Return Loss	4 - 862 MHz	dB	18	21	-
Coupled Return Loss	4 - 862 MHz	dB	18	26	-
Isolation	4 - 862 MHz	dB	26	38	-

Pin Configuration

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

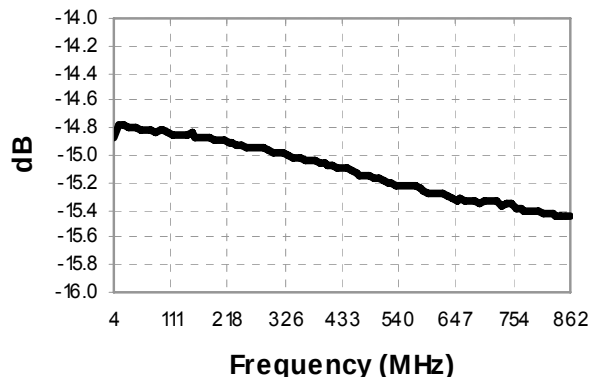
Schematic



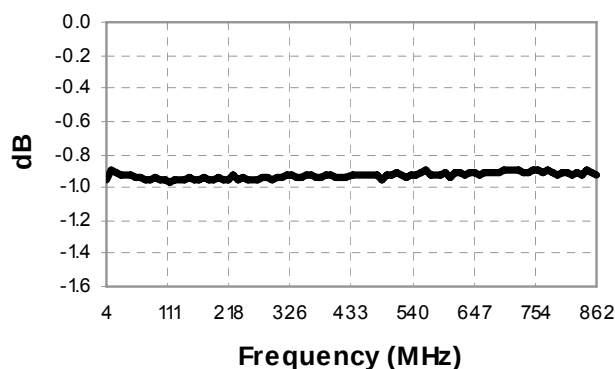
Coupler, 14dB
4 MHz - 862 MHz

Rev. V2

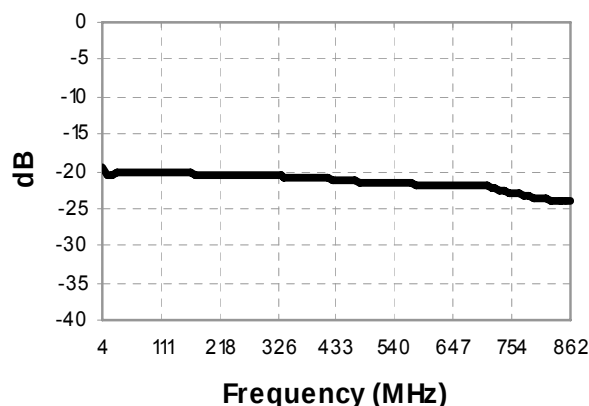
Coupling:



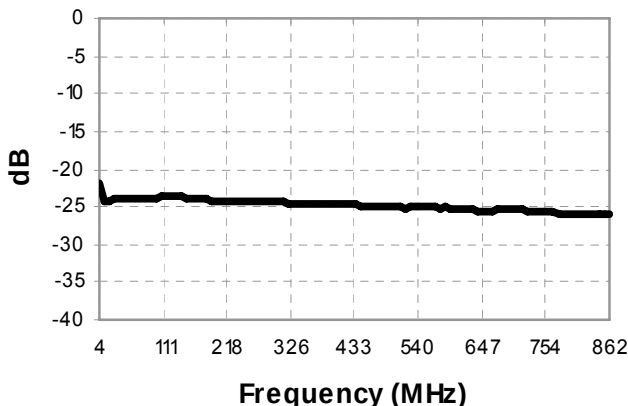
Main Line Loss:



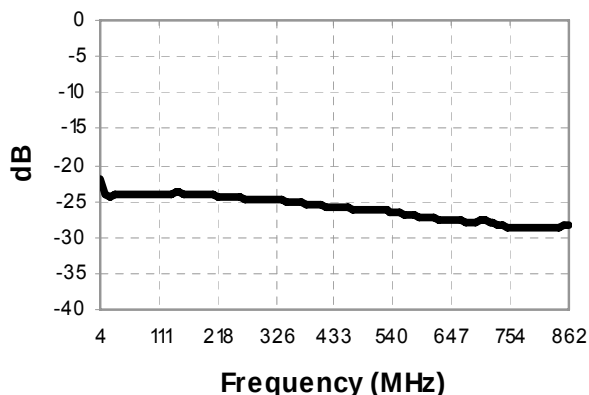
Return Loss: Input



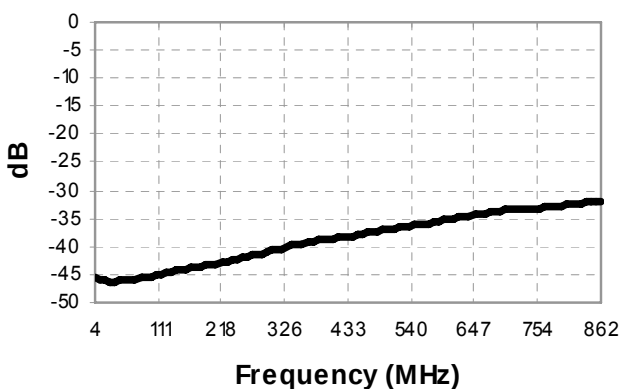
Return Loss: Output



Return Loss: Coupled



Isolation:

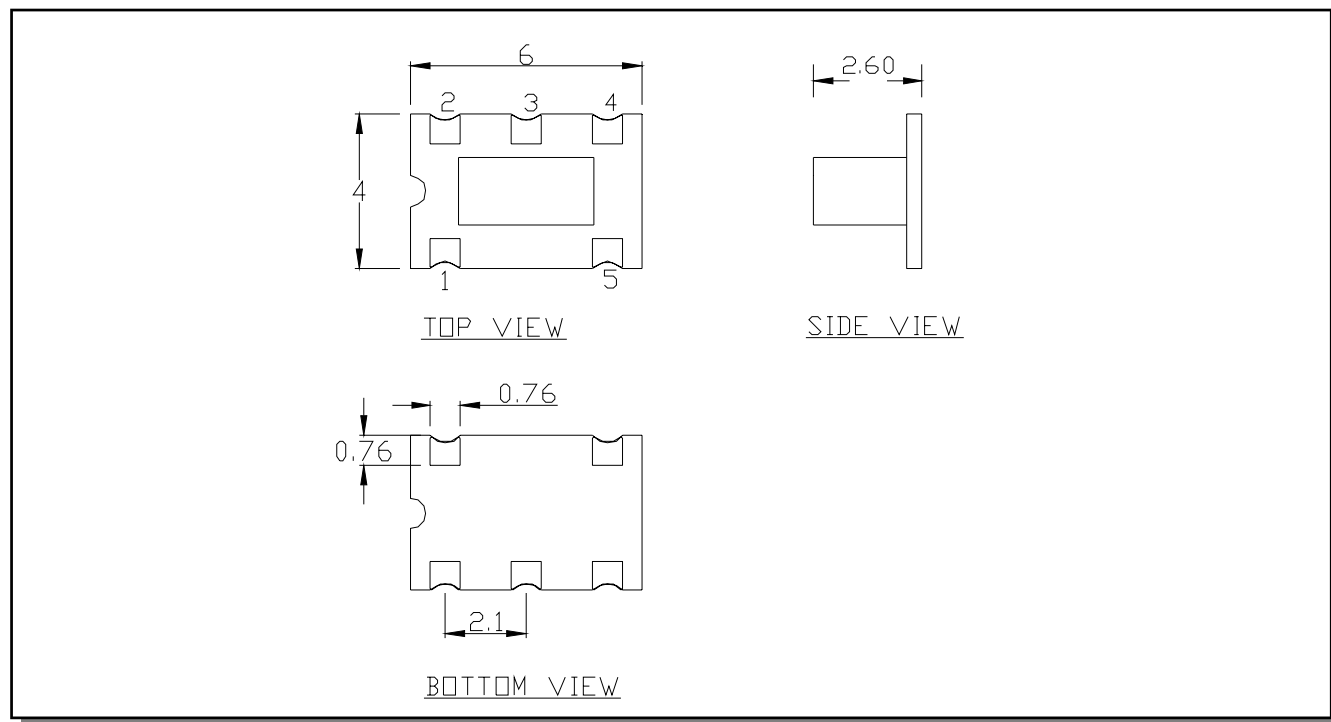


Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Coupler, 14dB
4 MHz - 862 MHz

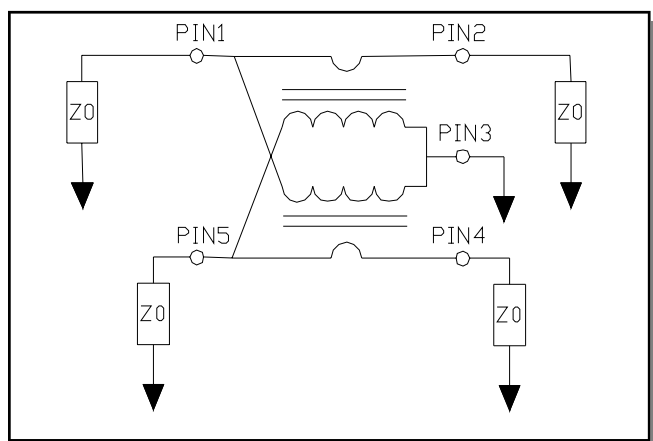
Rev. V2

Outline Drawing

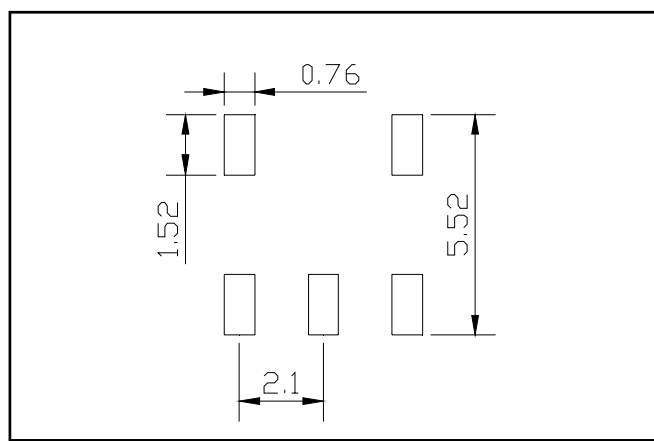


1. Dimensions in mm.
2. Tolerance: ± 0.2 mm unless otherwise noted.
3. Model number and lot code are printed on the reel.
4. Finish: Electroless nickel immersion gold

Application Circuit



Recommended Footprint



Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel Size	mm	330
Tape Width	mm	16.0
Pitch	mm	8.0
Ao	mm	4.3
Bo	mm	6.3
Ko	mm	3.2
Orientation	-	F45
Reference Application Note ANI-019 for orientation		

Ordering Information

Part Number	Description
MACP-010389-CE0880	Tape & Reel
MACP-010389-CE08TB	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	Created datasheet	20101182
V2	24 Sep 2010	Component outline drawing corrected	20101613