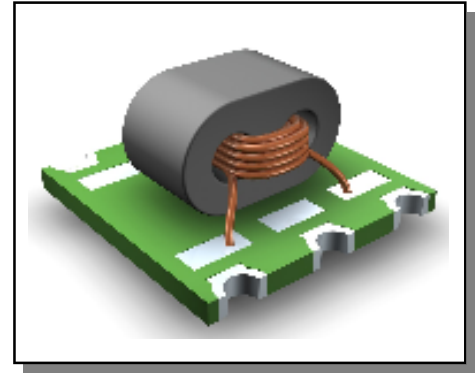


Features

- ◆ 2 way splitter transformer
- ◆ Surface mount
- ◆ Available on tape and reel
- ◆ 260°C reflow compatible
- ◆ RoHS Compliant and Pb free
- ◆ Excellent temperature stability



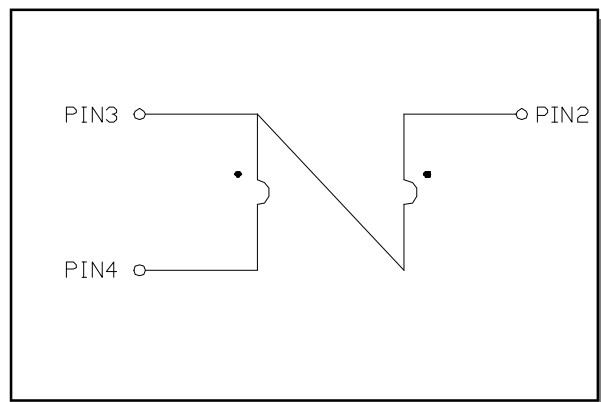
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	5		2400
Impedance		Ω	-	75	
Power split	5 - 2400 MHz	dB	-	3	
Insertion Loss	5 - 2400 MHz	dB	-	0.5	1.7
Amplitude Balance	5 - 2400 MHz	dB	-	0.2	± 0.9
Phase Balance	5 - 2400 MHz	dB	-	5	± 6
Input Return Loss	5 - 2400 MHz	dB	9	15	-
Output Return Loss	5 - 2400 MHz	dB	10	17	-
Isolation	5 - 2400 MHz	dB	6	14	-

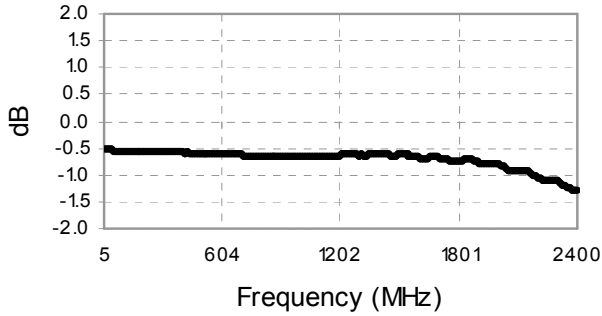
Pin Configuration

Pin No.	Function
1	Not used
2	Output 1
3	Input
4	Output2
5	Not used

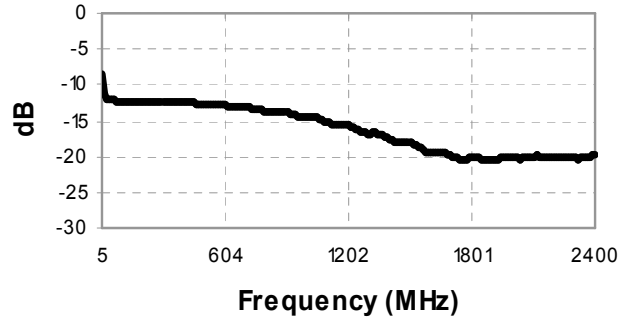
Schematic



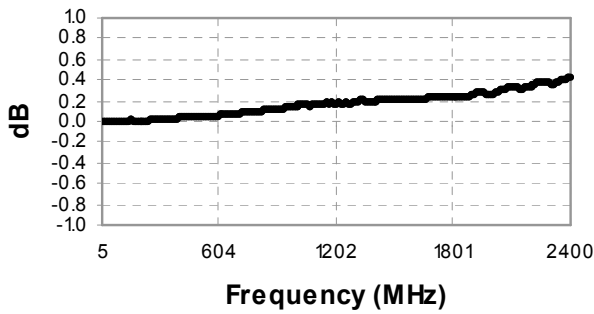
Insertion Loss:



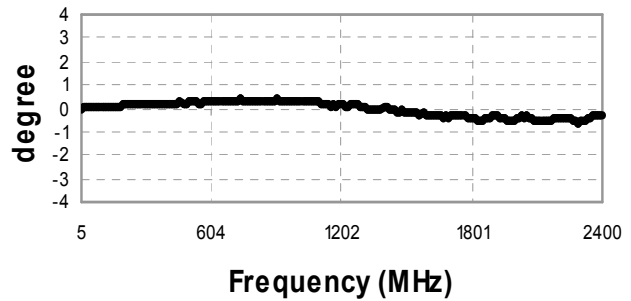
Isolation:



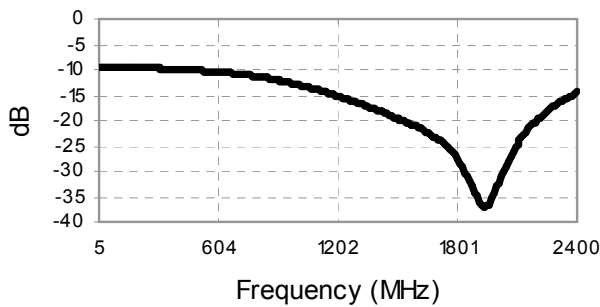
Amplitude Balance:



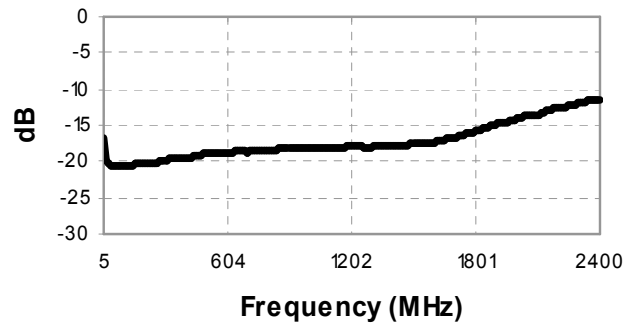
Phase Balance:



Return Loss: Input



Return Loss: Output



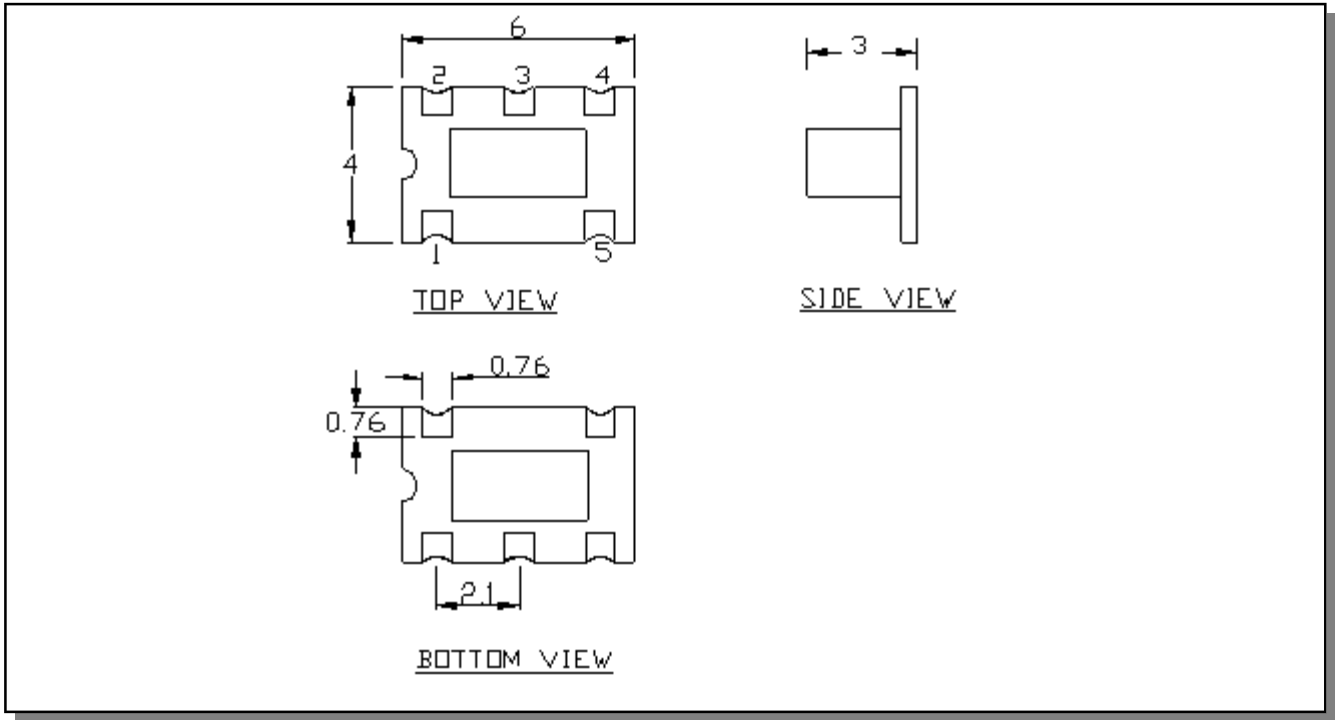
MAPD-010424-C20C80



2 way Splitter Transformer
5 MHz - 2400 MHz

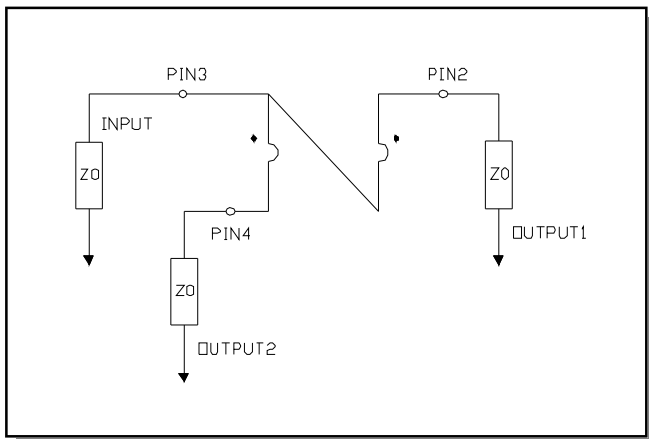
Rev. V2

Outline Drawing

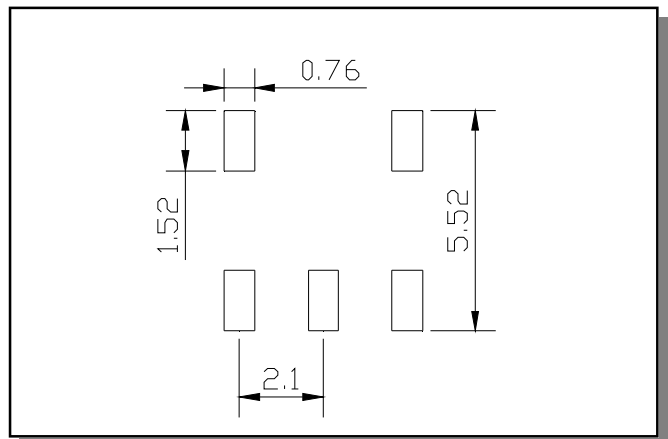


1. Dimensions in mm.
2. Tolerance: $\pm 0.2\text{mm}$ unless otherwise noted.
3. Model number and lot code are printed on the reel.
4. Finish: Electroless nickel immersion gold

Application Circuit



Recommended Footprint



MAPD-010424-C20C80



2 way Splitter Transformer
5 MHz - 2400 MHz

Rev. V2

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
Bo	mm	6.4
Ko	mm	3.2
Orientation	-	F45
Reference Application Note ANI-019 for orientation		

Ordering Information

Part Number	Description
MAPD-010424-C20C80	Tape & Reel
MAPD-010424-C20CTB	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	07 Sep, 2010	datasheet	20101332
V2	18 Nov, 2010	Update Ao = 4.5, Bo = 6.4 on T&R info. Correct height of unit to 3.0mm	20101946

4

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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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