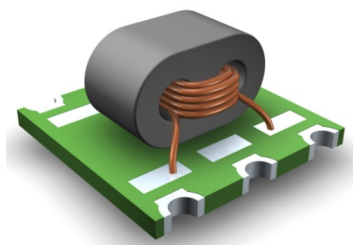


## 2 Way Splitter Transformer 5 - 2400 MHz

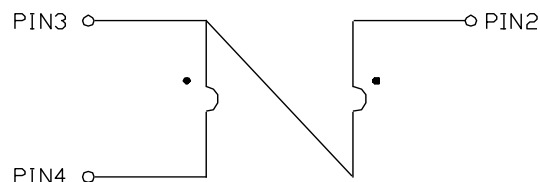
Rev. V3

### Features

- 2 Way Splitter Transformer
- Surface Mount Package
- Available on Tape and Reel
- 260°C Reflow Compatible
- RoHS Compliant and Pb Free
- Excellent Temperature Stability



### Schematic



### Pin Configuration

Pin #	Function	Pin #	Function
1, 5	Not Used	3	Input
2	Output Port 1	4	Output Port 2

### Electrical Specifications: Freq. = 5 - 2400 MHz, $Z_0 = 75 \Omega$ , $T_A = 25^\circ\text{C}$ , $P_{IN} = 0 \text{ dBm}$

Parameter	Freq. Test Conditions (MHz)	Units	Min	Typ	Max
Power Split	—	dB	—	3	
Insertion Loss	5 - 2400	dB	-	0.5	1.7
Amplitude Balance	5 - 2400	dB	-	0.2	$\pm 0.9$
Phase Balance	5 - 2400	Degree	-	5	$\pm 6$
Input Return Loss	5 - 2400	dB	9	15	-
Output Return Loss	5 - 2400	dB	10	17	-
Isolation	5 - 2400	dB	6	14	-

## 2 Way Splitter Transformer 5 - 2400 MHz

Rev. V3

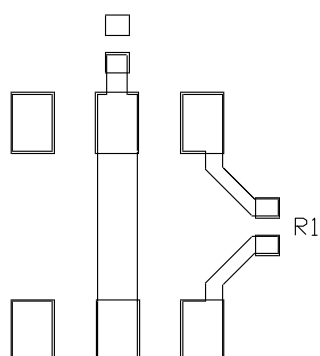
### Ordering Information

Part Number	Description
MAPD-010424-C20C80	2000 piece reel
MAPD-010424-C20CTB	customer evaluation board

### Recommended Maximum Ratings

Parameter	Absolute Maximum
Input Power	250 mW
DC Current	200 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

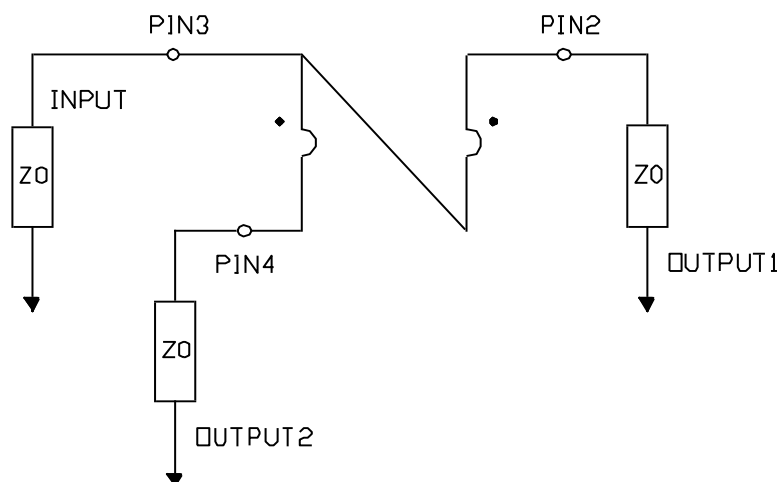
### Recommend PCB Layout



### Parts List

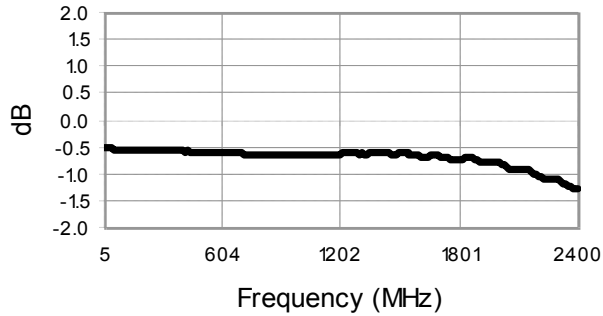
Reference Designator	Description	Value
R1	Res.,0402	75Ω

### Application Circuit

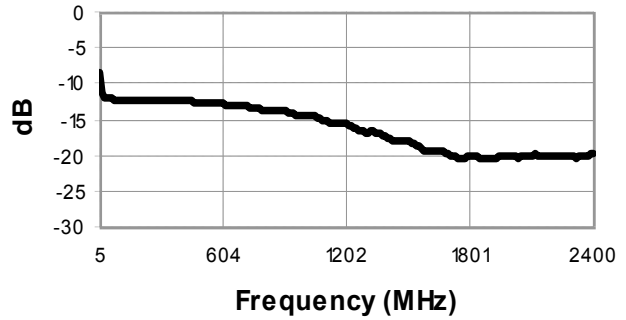


## Typical Performance Curves

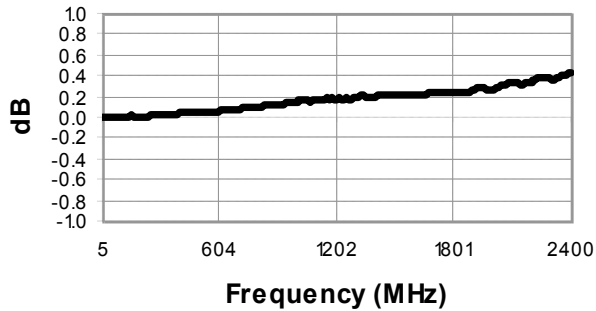
**Insertion Loss**



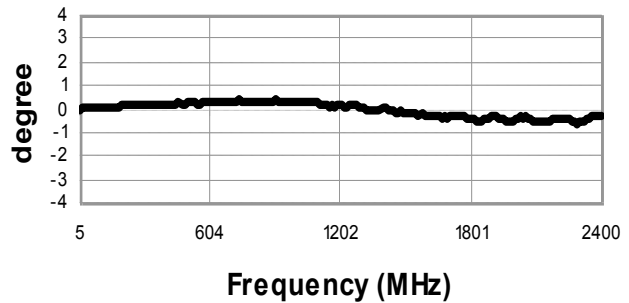
**Isolation**



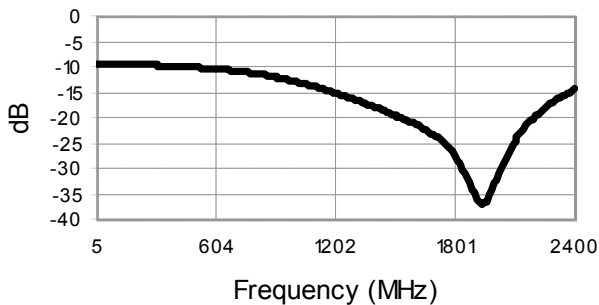
**Amplitude Balance**



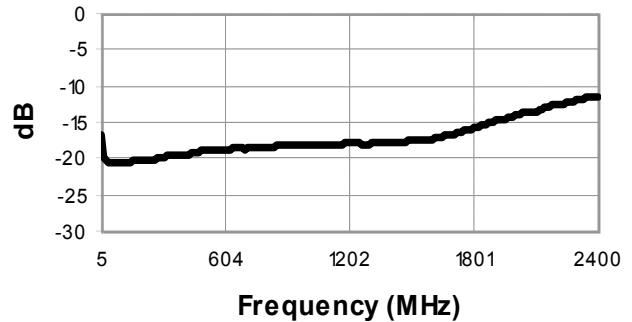
**Phase Balance**



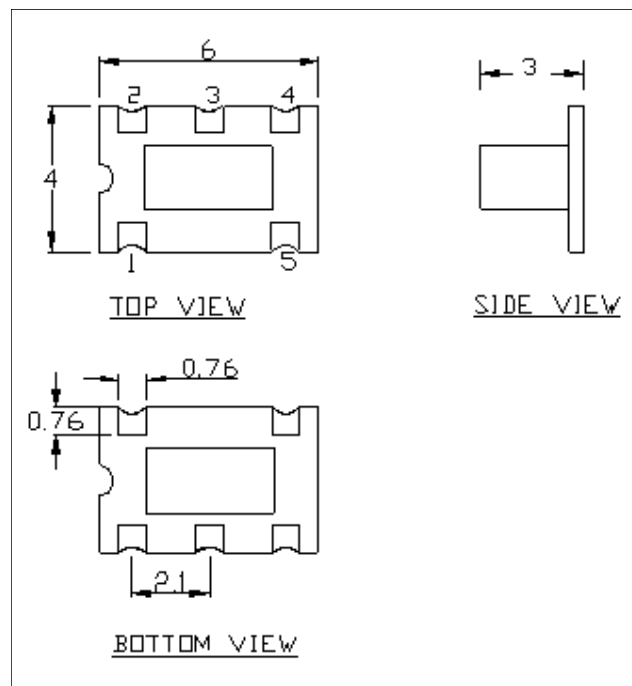
**Input Return Loss**



**Output Return Loss**

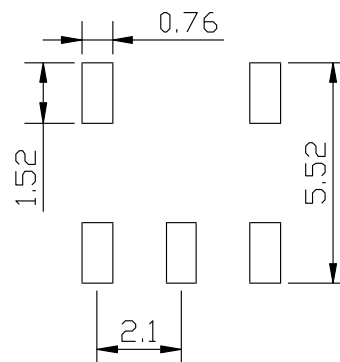


## Outline Drawing



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

## Recommended Footprint



## 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		

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