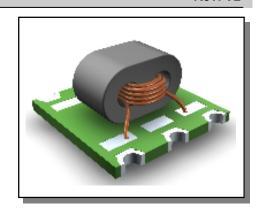


2 way Splitter Transformer 5 MHz - 2400 MHz

Rev. V2

#### **Features**

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



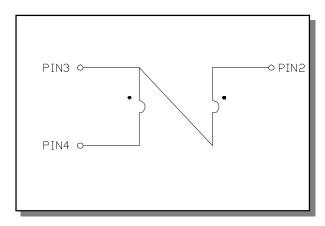
## **Electrical Specifications:** $Z_0 = 75\Omega$ , $T_A = 25$ °C, $P_{in} = 0$ dBm

Parameter	Conditions	Units	Min	Тур	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**



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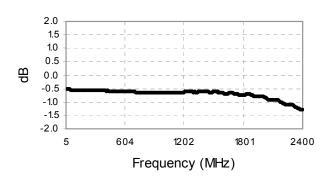
North America Tel: 800.366.2266
India Tel: +91.80.43537383
Europe Tel: +353.21.244.6400
China Tel: +86.21.2407.1588
Visit www.macomtech.com for additional data sheets and product information.



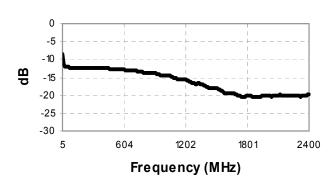
2 way Splitter Transformer 5 MHz - 2400 MHz

Rev. V2

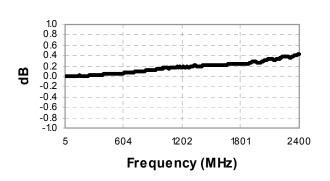
#### **Insertion Loss:**



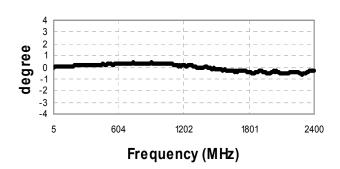
#### Isolation:



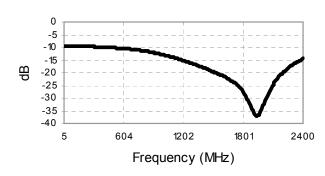
#### **Amplitude Balance:**



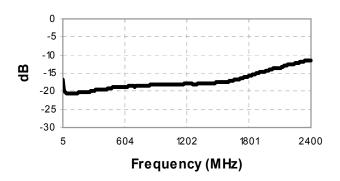
#### Phase Balance:



#### **Return Loss: Input**



### **Return Loss: Output**

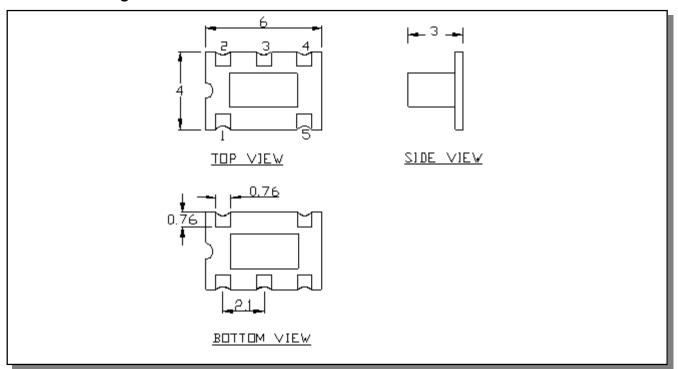




2 way Splitter Transformer 5 MHz - 2400 MHz

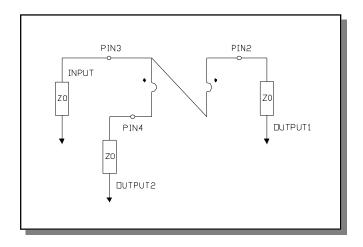
Rev. V2

#### **Outline Drawing**

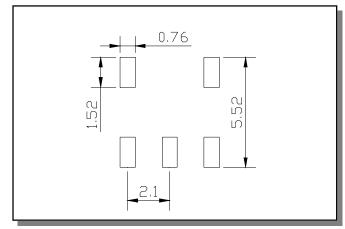


- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code are printed on the reel.
- Finish: Electroless nickel immersion gold

## **Application Circuit**



## **Recommended Footprint**



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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
Во	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

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