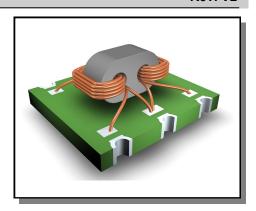


Transformer, 1:1dB 5 MHz - 400 MHz

Rev. V2

Features

- ♦ 1:1dB Transformer with center tap
- ♦ Surface mount
- Available on tape and reel
- ♦ 260°C reflow compatible
- ◆ RoHS Compliant and Pb free
- ◆ Excellent temperature stability



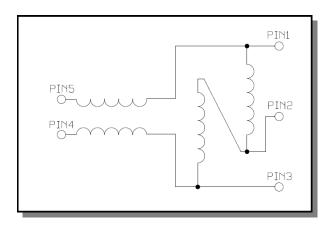
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	5		400
Impedance		Ω	-	75	
Insertion Loss 1 (Pin5 to pin1)	5 - 400 MHz	dB	-	0.5	0.6
Insertion Loss 2 (pin5 to pin3)	5 - 400 MHz	dB	-	0.4	0.6
Amplitude Balance	5 - 400 MHz	dB	-	0.08	±0.5
Phase Balance	5 - 400 MHz	dB	-	0.4	±2.0
Input Return Loss (pin5)	5 - 200 MHz 200 - 400 MHz	dB dB	20 19	28 22	-

Pin Configuration

Pin No.	Function		
1	Output 1		
2	Not connected		
3	Output 2		
4	Ground		
5	Input		

Schematic



ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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.

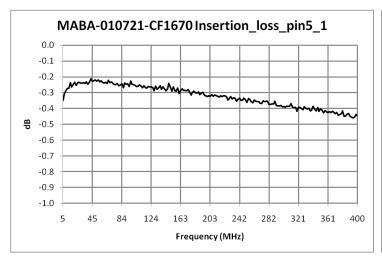
North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

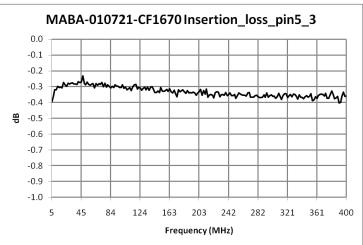
India Tel: +91.80.43537383
 China Tel: +96.21.2407.1588
 Visit www.macomtech.com for additional data sheets and product information.

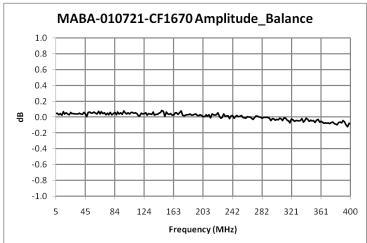


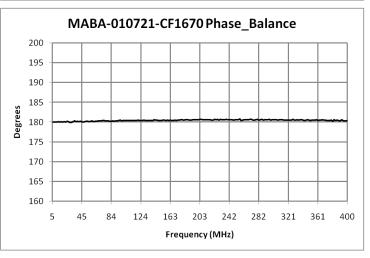
Transformer, 1:1dB 5 MHz - 400 MHz

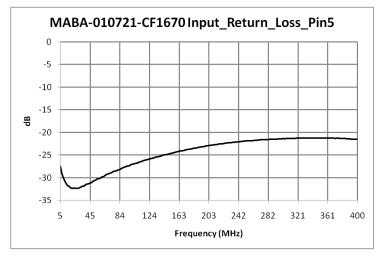
Rev. V2









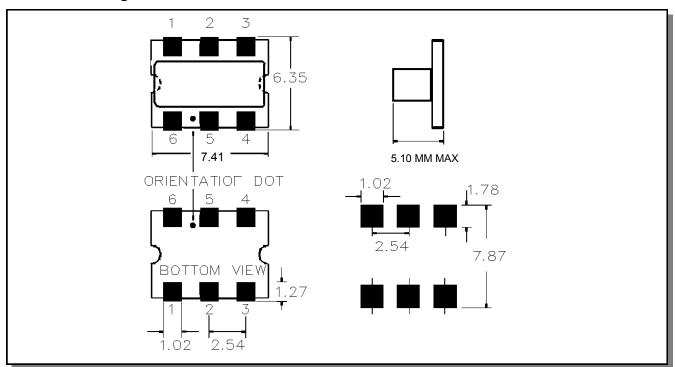




Transformer, 1:1dB 5 MHz - 400 MHz

Rev. V2

Outline Drawing

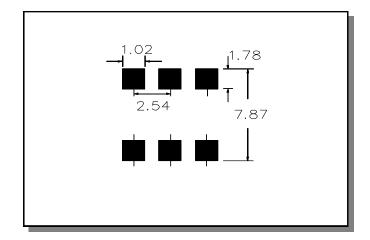


- 1. Dimensions in mm.
- Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code are printed on the reel.
- 4. Finish: ENIG on both sides, 0.05 to 0.1 μm gold over 3 to 6 μm nickel

Application Circuit

PIN1 Vbigs Vbigs PIN2 PIN3 PIN3 PIN3 PIN3

Recommended Footprint



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Transformer, 1:1dB 5 MHz - 400 MHz

Rev. V2

Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	900
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	12.00
Ao	mm	6.6
Во	mm	7.9
Ko	mm	5.2
Orientation	-	F15

Reference Application Note ANI-019 for orientation

Ordering Information

Part Number	Description		
MABA-010721-CF1670	Tape & Reel		
MABA-010721-CF16TB	Customer Evaluation Board		

Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		1200
Operating Temperature Range	°C	-40	+85
Storage Temperature Range	°C	-55	+125

Full temperature plots available on request