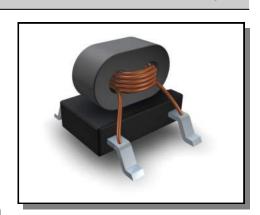


Transformer, 1:3 40 MHz - 1000MHz

Rev. V2

Features

- 1:3 impedance ratio
- Surface mount
- Available on tape and reel
- 260°C reflow compatible
- RoHS Compliant and Pb free
- Excellent temperature stability
- Can be used on 50Ω and 75Ω systems



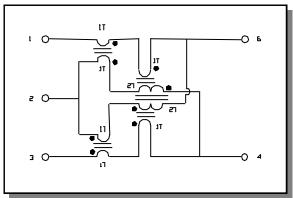
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	40		1000
Impedance		Ω		75	
Impedance Ratio				1:3	
Insertion Loss1 (Pin4 to Pin3)	40 - 500 MHz 500 - 1000 MHz	dB dB	-	1.0 1.2	1.7 2.5
Insertion Loss2 (Pin4 to Pin1)	40 - 500 MHz 500 - 1000 MHz	dB dB		1.5 2.0	2.0 3.2
Amplitude Unbalance	40 - 500 MHz 500 - 1000 MHz	dB dB		0.5 0.8	± 1.3 ± 1.7
Phase Balance	40 - 500 MHz 500 - 1000 MHz	0		11 22	±21 ±32
Input Return Loss	40 - 500 MHz 500 - 1000 MHz	dB dB	13 11	17 13	-

Pin Configuration

Pin No.	Function	
1	Output 2	
2	Centre tap	
3	Output 1	
4	Input	
6	Ground	

Schematic



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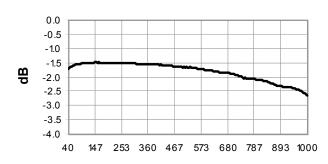
Visit www.macom.com for additional data sheets and product information.



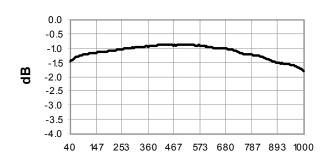
Transformer, 1:3 40 MHz - 1000MHz

Rev. V2

Insertion Loss: Pin4—Pin3



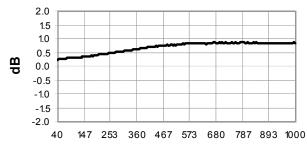
Insertion Loss: Pin4—Pin1



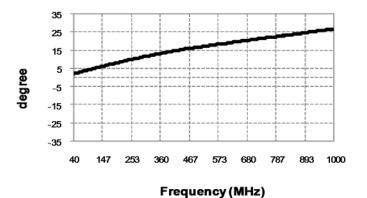
Frequency (MHz)

Frequency (MHz)

Amplitude Balance

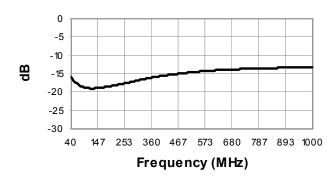


Phase Balance



Frequency (MHz)

Return Loss: Input

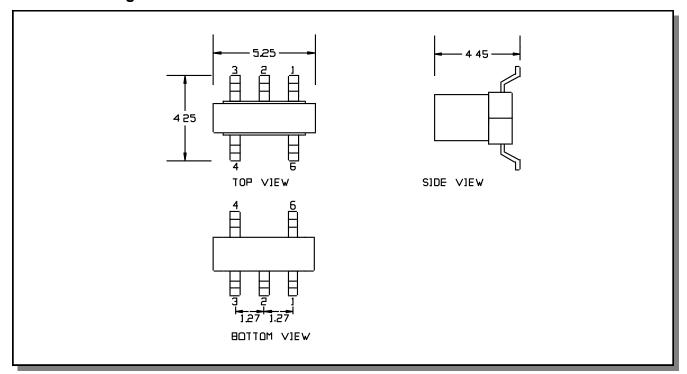




Transformer, 1:3 40 MHz - 1000MHz

Rev. V2

Outline Drawing

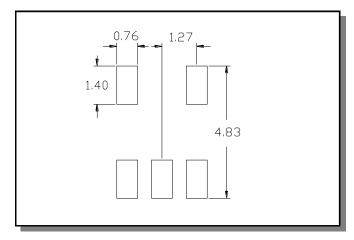


- Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- Model number and lot code are printed on the reel.
- Finish: CuSn6

Application Circuit

PIN 1 3X ZD PIN 2 P1N 4 PIN 3

Recommended Footprint





Transformer, 1:3 40 MHz - 1000MHz

Rev. V2

Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	2000
Reel size	mm	330
Tape width	mm	12.00
Pitch	mm	8.00
A_0	mm	4.50
B ₀	mm	5.40
K ₀	mm	4.70
Orientation	-	F28

Ordering Information

Part Number	Description		
MABA-011032	Tape & Reel		

Recommended Maximum Ratings

Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+85

Temperature data available on request



Transformer, 1:3 40 MHz - 1000MHz

Rev. V2

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