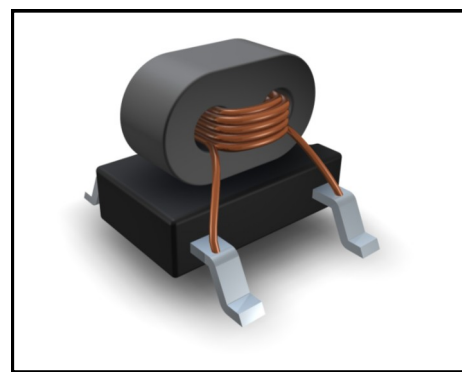


Transformer, 1:3 40 MHz - 1000MHz

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



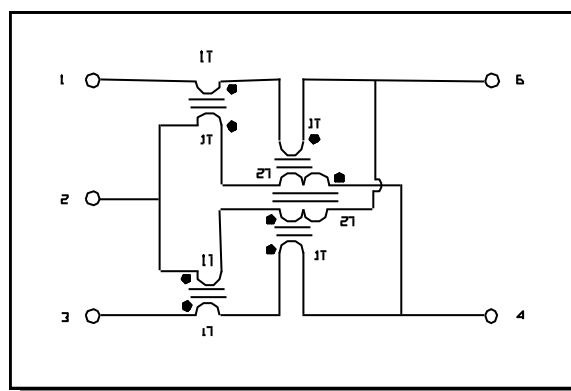
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

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

Pin Configuration

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

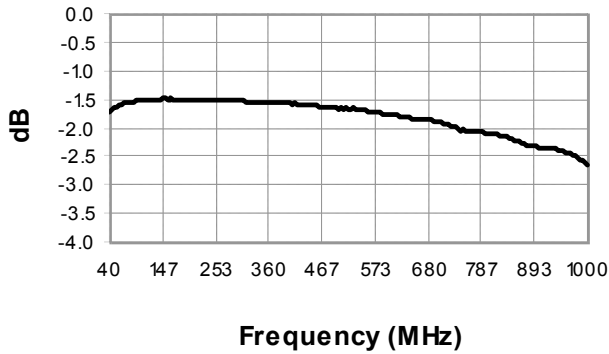
Schematic



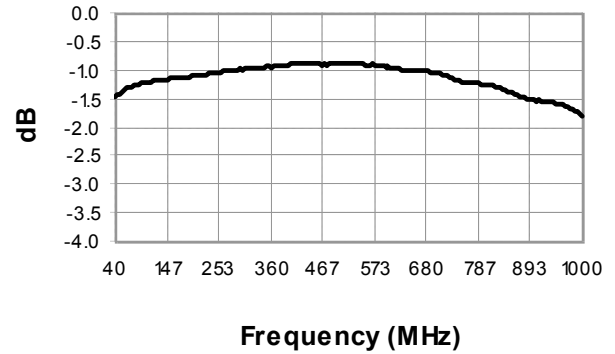
Transformer, 1:3
40 MHz - 1000MHz

Rev. V2

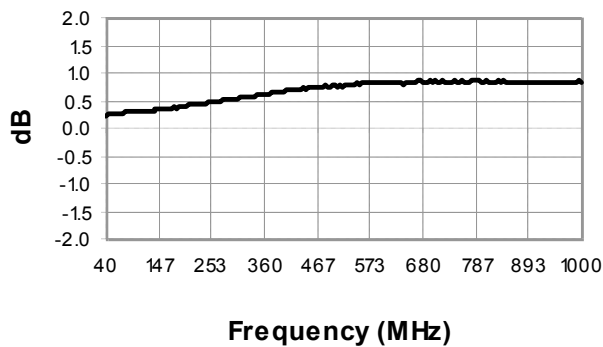
Insertion Loss: Pin4—Pin3



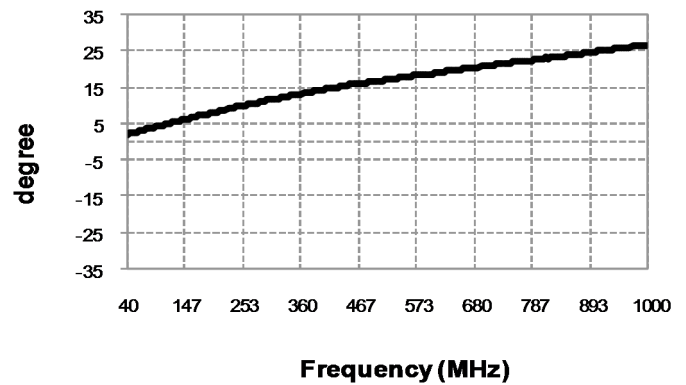
Insertion Loss: Pin4—Pin1



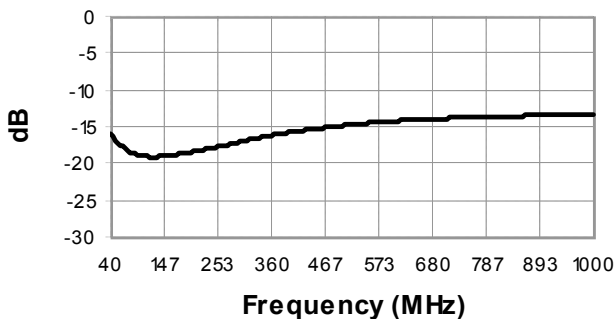
Amplitude Balance



Phase Balance



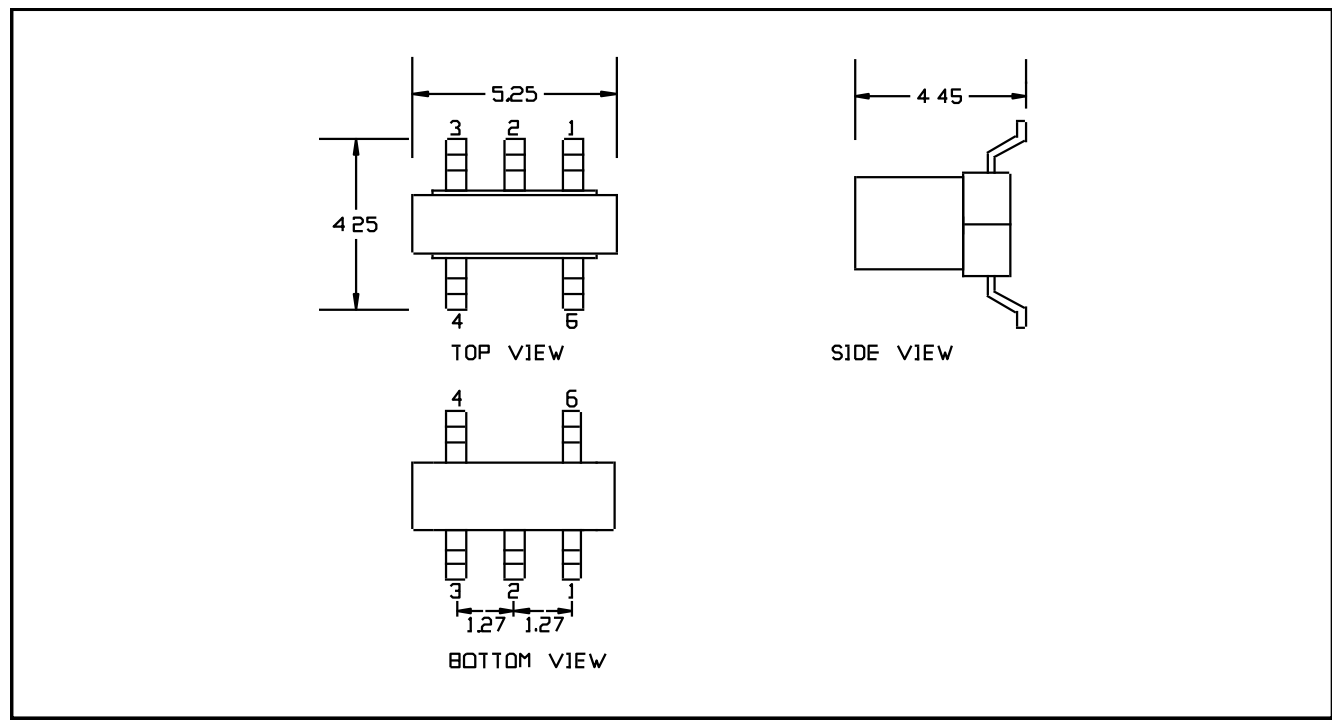
Return Loss: Input



Transformer, 1:3
40 MHz - 1000MHz

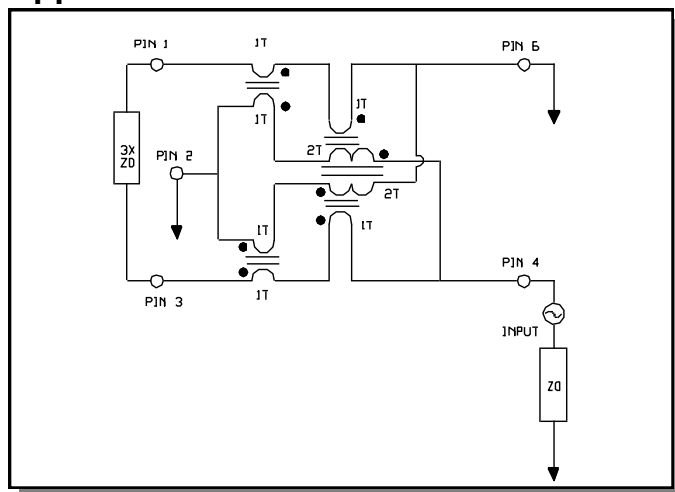
Rev. V2

Outline Drawing

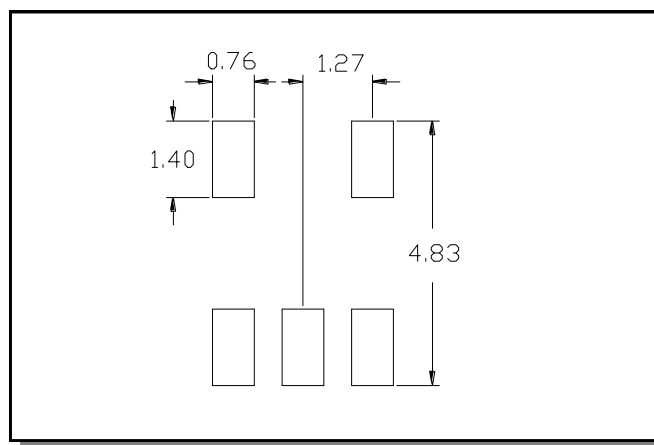


1. Dimensions in mm.
2. Tolerance: ± 0.2 mm unless otherwise noted.
3. Model number and lot code are printed on the reel.
4. Finish: CuSn6

Application Circuit



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

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