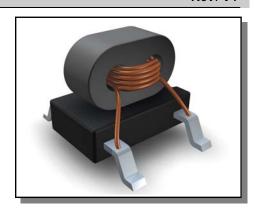


Transformer, 1:1 40 MHz - 200 MHz

Rev. V1

Features

- ♦ 1:1 impedance ratio
- ♦ Surface mount
- Available on tape and reel
- ◆ 260°C reflow compatible
- ◆ RoHS Compliant and Pb free
- Excellent temperature stability
- \bullet Can be used on 50Ω and 75Ω systems
- ◆ Suitable for all CATV, Broadband and FTTx applications.



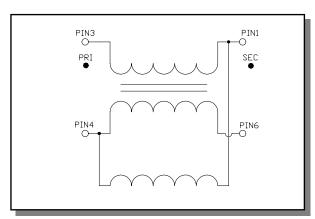
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25$ °C, $P_{in} = 0$ dBm

Parameter	Conditions	Units	Min	Тур	Max
Frequency Range		MHz	40		200
Impedance		Ω		75	
Impedance Ratio				1:1	
Insertion Loss 1 Pin3 - Pin1	40 - 120 MHz 120 - 200 MHz	dB dB	-	0.4 0.5	.5 .6
Insertion Loss 2 Pin3 - Pin6	40 - 200 MHz	dB	-	0.4	.5
Amplitude Balance	40 - 200 MHz	dB	-	0.1	±0.2
Phase Balance	40 - 200 MHz	Degree	-	0.5	±2.0
Input Return Loss Pin3	40 - 200 MHz	dB	20	23	-

Pin Configuration

Pin No.	Function
1	Secondary Dot (Output 1)
2	Not Connected (Ground)
3	Primary Dot (Input)
4	Primary (Ground)
6	Secondary (Output 2)

Schematic



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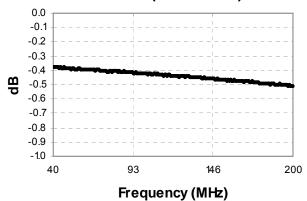
• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400 • China Tel: +86.21.2407.1588



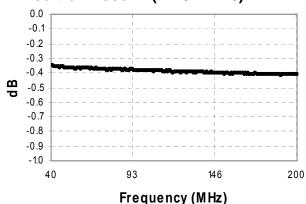
Transformer, 1:1 40 MHz - 200 MHz

Rev. V1

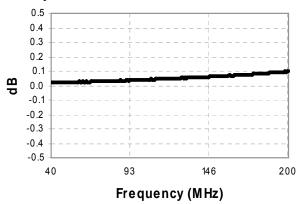
Insertion Loss 1: (Pin3 - Pin1)



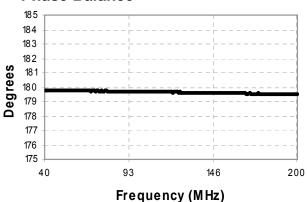
Insertion Loss 2: (Pin3 - Pin6)



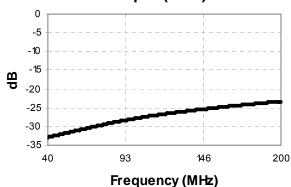
Amplitude Balance



Phase Balance



Return Loss: Input (Pin3)



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

Solutions has under development. Performance is based on en

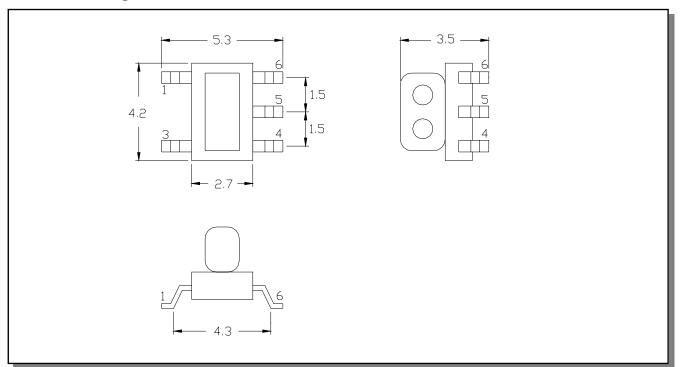
typical. Mechanical outline has been fixed. Engir Commitment to produce in volume is not pure ran



Transformer, 1:1 40 MHz - 200 MHz

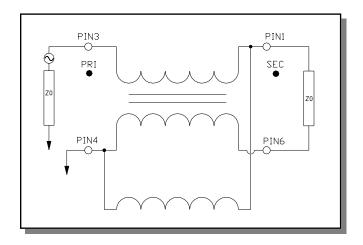
Rev. V1

Outline Drawing

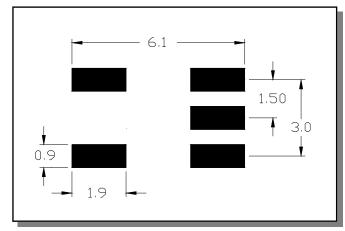


- Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- Pin Material: CuSn6

Application Circuit



Recommended Footprint



typical. Mechanical outline has been fixed. Eldined in samples Commitment to produce in volume is not pura the d

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Transformer, 1:1 40 MHz - 200 MHz

Rev. V1

Tape & Reel Information

Parameter	Units	Value	
Qty per reel	-	2000	
Reel size	mm	330	
Tape width (W)	mm	12.0	
Pitch (P ₁)	mm	8.0	
A ₀	mm	5.6	
B ₀	mm	4.5	
K ₀	mm	4.0	
Orientation	-	F26	
Reference Application Note ANI-019 for orientation			

Ordering Information

Part Number	Description
MABA -010400-CT18A0	Tape & Reel
MABA -010400-CT18TB	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

Temperature data available on request

ECO History

Rev	Date	Description	ECO	
V1	28 July 2010	Released	20100951	

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