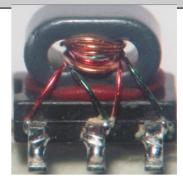
Transformer, 2:1 Flux Coupled Transformer 5MHz - 85 MHz

Features

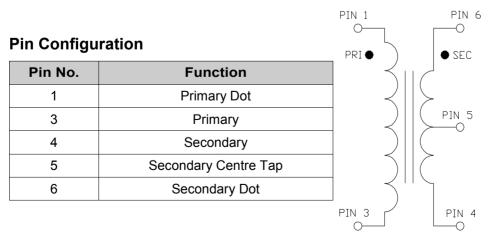
- Surface mount
- 2:1 Impedance ratio
- Centre tap on secondary
- Suitable for DOCSIS 3.0
- RoHS compliant
- Available on tape and reel



Parameter	Conditions	Units	Min	Тур	Мах
Frequency Range		MHz	5		85
Impedance		Ω		75	
Impedance Ratio				2:1	
Insertion Loss (Pin1 - Pin6)	5 - 50 MHz 50 - 85 MHz	dB dB		0.4 0.5	0.6 0.7
Insertion Loss (Pin1 - Pin4)	5 - 50 MHz 50 - 85 MHz	dB dB		0.4 0.5	0.6 0.7
Amplitude Balance	5 - 50 MHz 50 - 85 MHz	dB dB		0.02 0.04	±0.2 ±0.3
Phase Balance	5 - 50 MHz 50 - 85 MHz	0 0		0.1 0.3	±2.0 ±3.0
Input Return Loss (Pin1)	5 - 45 MHz 45 - 85 MHz	dB dB	20 15	25 19	

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

Schematic



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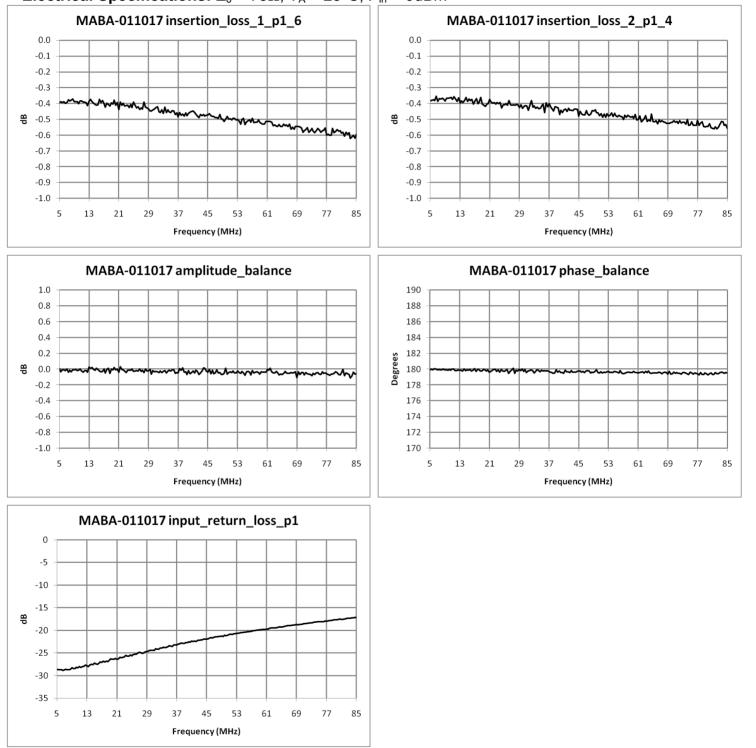
МАСОМ

Rev. V3

Transformer, 2:1 Flux Coupled Transformer 5MHz - 85 MHz

Rev. V3

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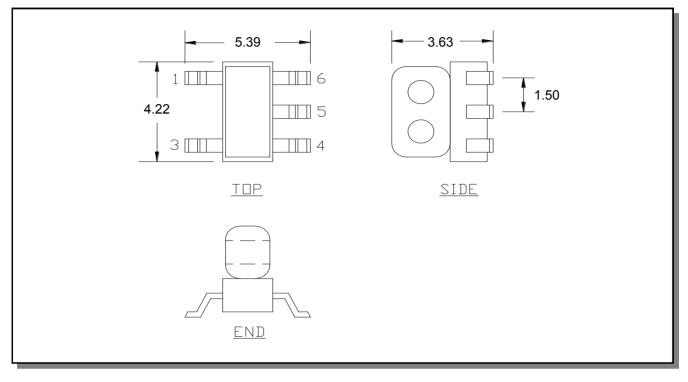
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^{\circ}C$, $P_{in} = 0dBm$

2

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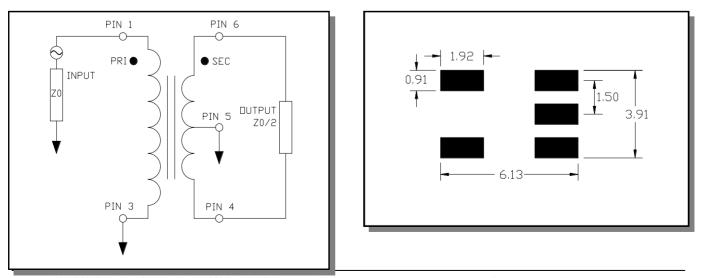
Transformer, 2:1 Flux Coupled Transformer 5MHz - 85 MHz

Outline Drawing



- 1. Dimensions in mm.
- 2. Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code printed on reel.
- 4. Lead plating (CuSn6) Lead finish SAC-305.

Application Circuit



Recommended Footprint

3

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Transformer, 2:1 Flux Coupled Transformer 5MHz - 85 MHz



Rev. V3

Tape & Reel Information

Parameter	Units	Value		
Qty per reel	-	2000		
Reel size	mm	330		
Tape width (W)	mm	12.00		
Pitch (P ₁)	mm	8.00		
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-011017	Tape & Reel	
MABA-011017-TB	Customer Evaluation Board	

Recommended Maximum Ratings

Parameter	Value	
Input Power	At least +28dBm (631mW)	
DC Current (tested at 5V)	At least 600mA	
Operating Temperature Range	-40°C to +85°C	

Temperature data available on request

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