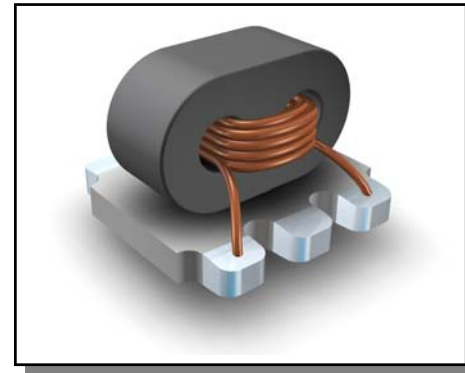


Transformer, 1:1.77
20 MHz - 1000 MHz

Rev. V1

Features

- ◆ 1:1.77 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
- ◆ Suitable for all CATV, Broadband and FTTx applications.



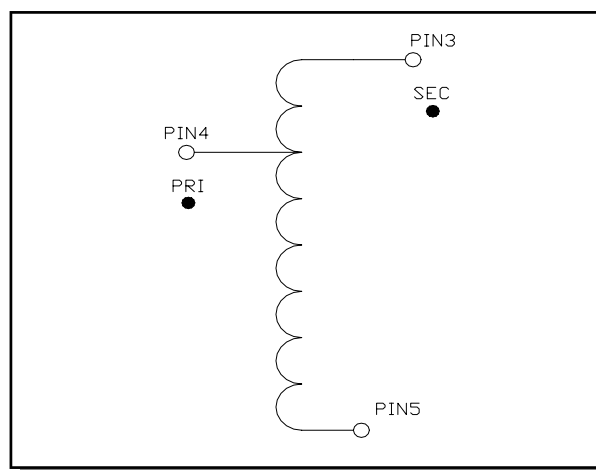
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	20		1000
Impedance		Ω		75	
Impedance Ratio				1:1.77	
Insertion Loss (Pin 4 to 3)	20 - 500 MHz	dB	-	0.6	0.8
	500 - 1000 MHz	dB	-	1.1	1.2
Input Return Loss (Pin 4)	20 - 150 MHz	dB	20	22	-
	150 - 500 MHz	dB	12	13	-
	500 - 1000 MHz	dB	8	9	-

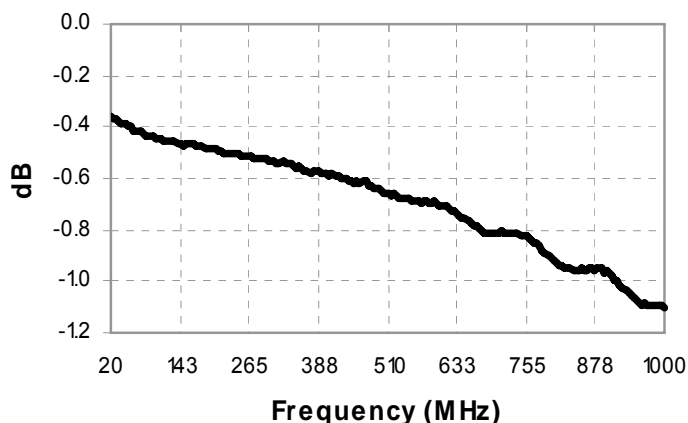
Pin Configuration

Pin No.	Function
1	Not Connected (ground)
2	Not Connected (ground)
3	Secondary Dot
4	Primary Dot
5	Ground

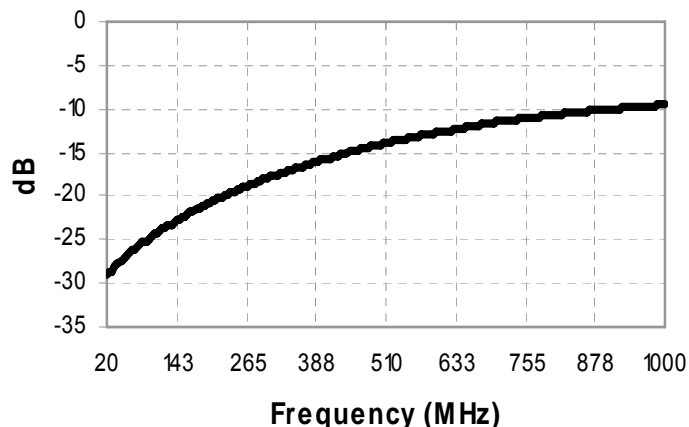
Schematic



Insertion Loss: (Pin 4 to 3)



Return Loss: (Pin 4)

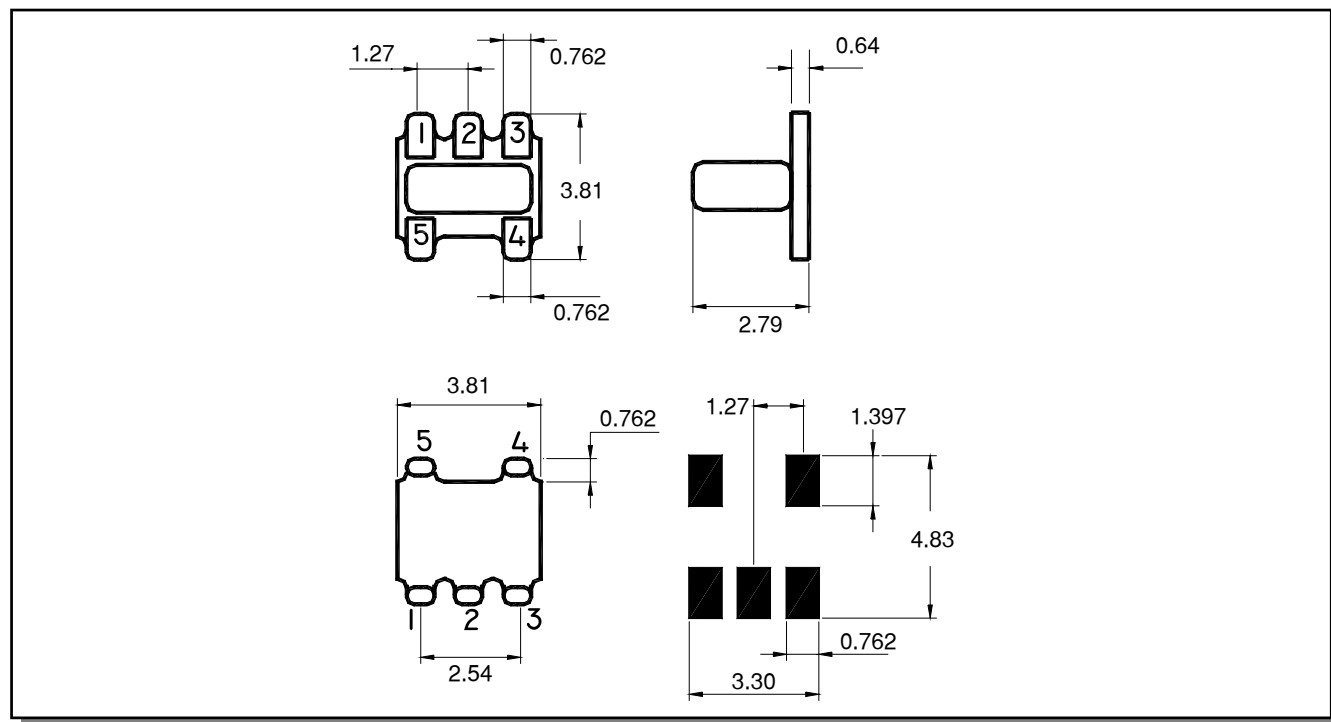


Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Transformer, 1:1.77
20 MHz - 1000 MHz

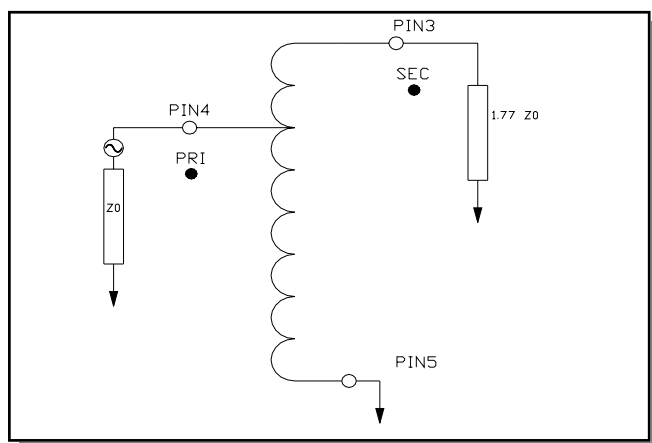
Rev. V1

Outline Drawing

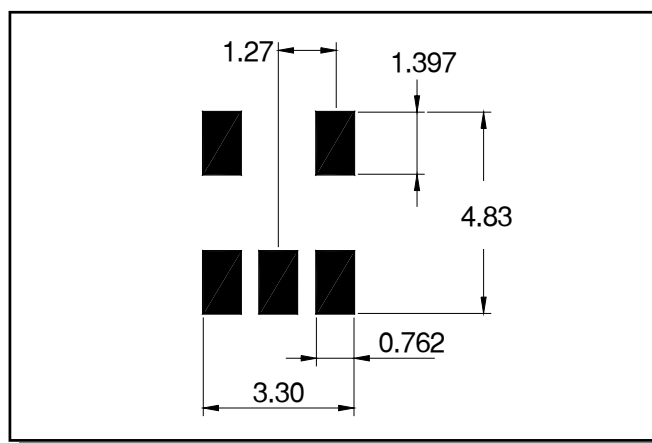


1. Dimensions in mm.
2. Tolerance: ± 0.2 mm unless otherwise noted.
3. Model number and lot code printed on reel.
4. Plating finish: ENIG

Application Circuit



Recommended Footprint



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	4.0
B ₀	mm	4.0
K ₀	mm	2.9
Orientation	-	F5
Reference Application note ANI-019 for orientation		

Ordering Information

Part Number	Description
MABA-010463-CA2A40	Tape & Reel

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	4 Sep 2010	New Transformer release	20101283