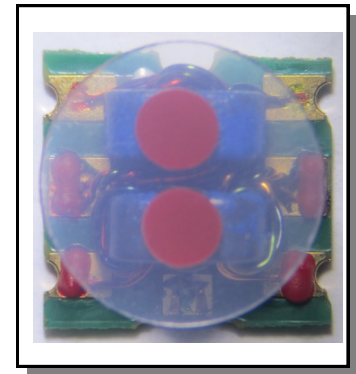


1:3 Transformer 5 - 1200 MHz

V2

Features

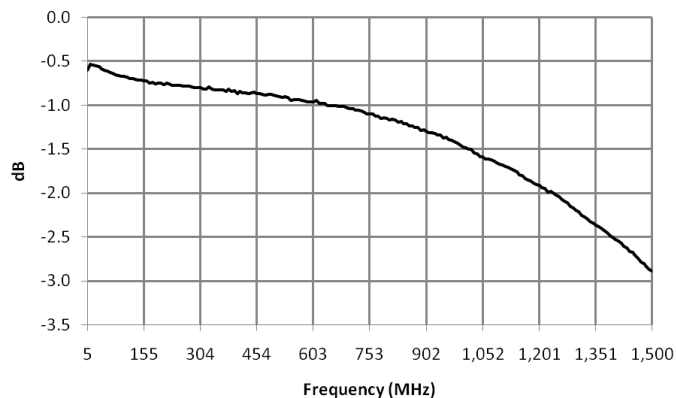
- 1:3 impedance ratio
- Surface mount
- Available on tape and reel
- 260°C reflow compatible
- RoHS Compliant, lead-free
- Excellent temperature stability
- Can be used on 50Ω and 75Ω



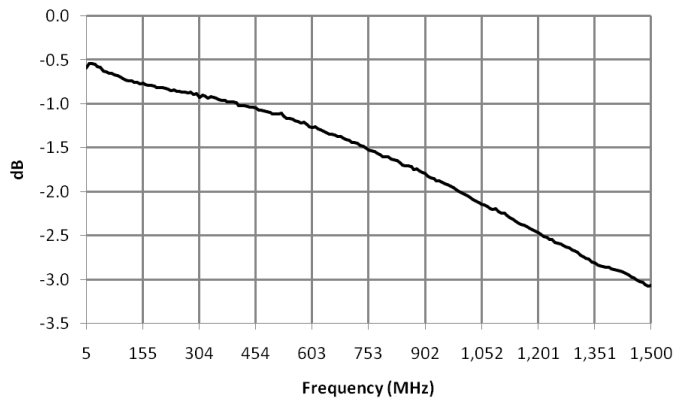
Electrical Specifications: $Z_0 = 75\Omega$, $T_A = 25^\circ\text{C}$, $P_{in} = 0\text{dBm}$

Parameter	Conditions	Units	Min	Typ	Max
Frequency Range		MHz	5		1200
Impedance		Ω	-	75	-
Impedance Ratio			-	1:3	-
Insertion Loss 1 Pin 4 - Pin 3	5 - 50 MHz	dB	-	0.6	1.2
	50 - 1000 MHz	dB	-	2.1	2.6
	1000 - 1200 MHz	dB	-	2.4	3.2
Insertion Loss 2 Pin 4 - Pin 2	5 - 50 MHz	dB	-	0.6	1.2
	50 - 1000 MHz	dB	-	0.7	2.0
	1000 - 1200 MHz	dB	-	1.7	2.6
Amplitude Balance	5 - 550MHz	dB	-	0.1	0.7
	550 - 660MHz	dB	-	0.4	0.9
	660 - 870 MHz	dB	-	0.5	1.2
	870 - 1200 MHz	dB	-	0.5	1.5
Phase Balance	5 -50 MHz	dB	-	2	5.0
	50 - 1200 MHz	dB	-	4	10.0
Input Return Loss	5 - 50 MHz	dB	19	21	-
	50 - 780 MHz	dB	15	18	-
	780 - 1000 MHz	dB	14	16	-
	1000 - 1200 MHz	dB	13	15	-

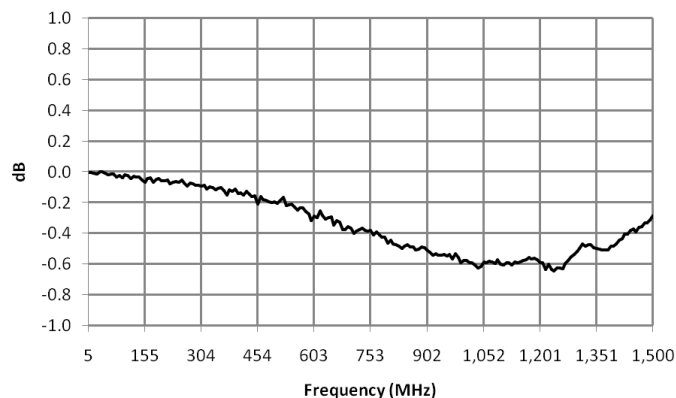
MABA-011027 insertion_loss_1_pin4_3



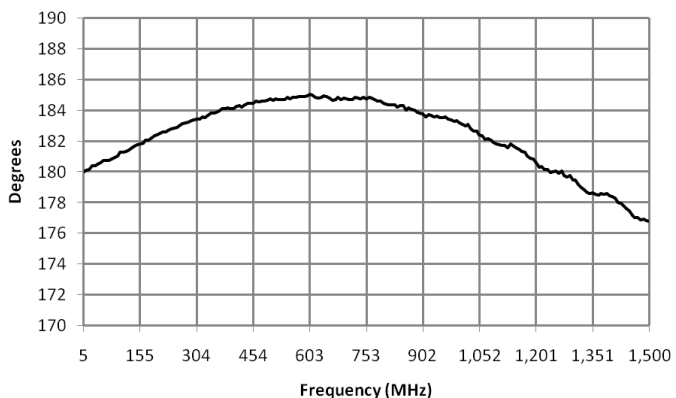
MABA-011027 insertion_loss_2_pin4_2



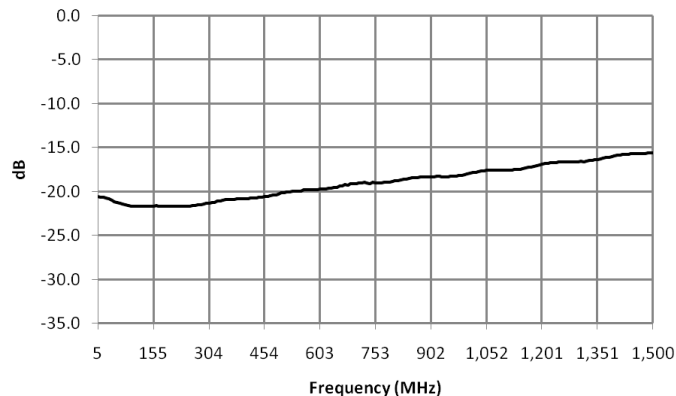
MABA-011027 amplitude_balance



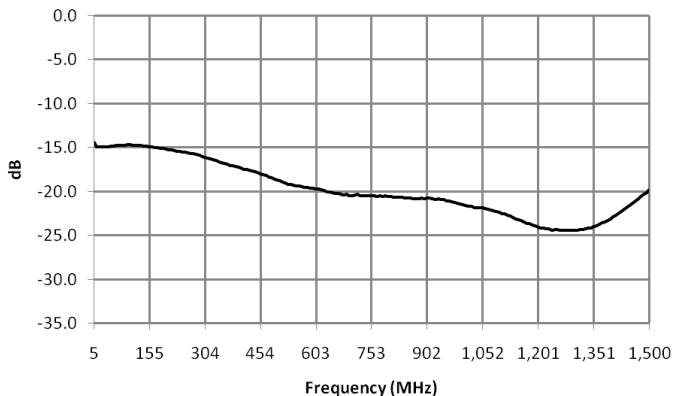
MABA-011027 phase_balance



MABA-011027 input_return_loss_pin4



MABA-011027 Sdd22



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

V2

The image displays three orthographic views of a mechanical component with the following dimensions and features:

- TOP VIEW:** Shows a circular central feature with a diameter of 5.90 ± 0.15 . The overall width is 6.35 ± 0.15 . Four corner features are labeled 1, 2, 3, and 4.
- BOTTOM VIEW:** Shows the underside of the part. It has a central rectangular area with a width of 3.88 . Four corner features are labeled 1, 2, 3, and 4. A dimension of 1.00 is shown for the width of the bottom edge.
- END VIEW:** Shows the side profile of the part. The overall width is 3.08 ± 0.15 . It features two circular holes.

-

1:3 Transformer
5 - 1200 MHz

V2

Tape & Reel Information

Parameter	Units	Value
Qty per reel	-	900
Reel Size	mm	330
Tape Width	mm	16.00
Pitch	mm	12.00
Ao	mm	6.60
Bo	mm	6.40
Ko	mm	3.50
Orientation	-	F27
Reference Application Note ANI-019 for orientation		

Ordering Information

Part Number	Description
MABA-011027	Tape & Reel
MABA-011027-TB	Customer Evaluation Board

Recommended Maximum Ratings

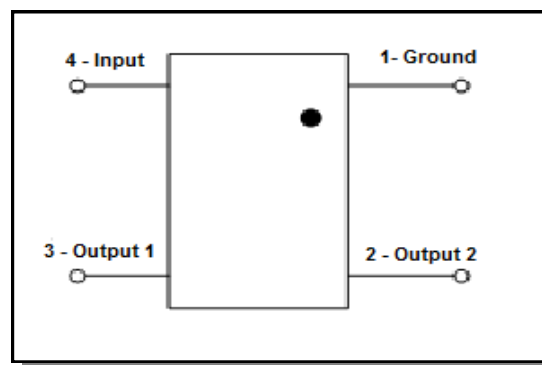
Parameter	Units	Min	Max
Input Power	mW		250
DC Current	mA		200
Operating Temperature Range	°C	-40	+85

Full temperature plots available on request

Pin Configuration

Pin No.	Function
1	Ground
2	Output 2
3	Output 1
4	Input

Schematic



M/A-COM Technology Solutions Inc. All rights reserved.

Information in this document is provided in connection with M/A-COM Technology Solutions Inc ("MACOM") products. These materials are provided by MACOM as a service to its customers and may be used for informational purposes only. Except as provided in MACOM's Terms and Conditions of Sale for such products or in any separate agreement related to this document, MACOM assumes no liability whatsoever. MACOM assumes no responsibility for errors or omissions in these materials. MACOM may make changes to specifications and product descriptions at any time, without notice. MACOM makes no commitment to update the information and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to its specifications and product descriptions. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document.

THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, RELATING TO SALE AND/OR USE OF MACOM PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, CONSEQUENTIAL OR INCIDENTAL DAMAGES, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. MACOM FURTHER DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, TEXT, GRAPHICS OR OTHER ITEMS CONTAINED WITHIN THESE MATERIALS. MACOM SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS, WHICH MAY RESULT FROM THE USE OF THESE MATERIALS.

MACOM products are not intended for use in medical, lifesaving or life sustaining applications. MACOM customers using or selling MACOM products for use in such applications do so at their own risk and agree to fully indemnify MACOM for any damages resulting from such improper use or sale.