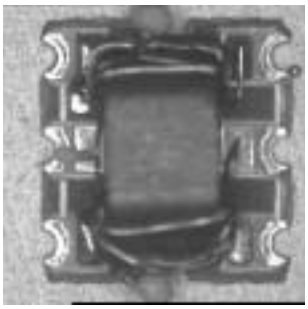
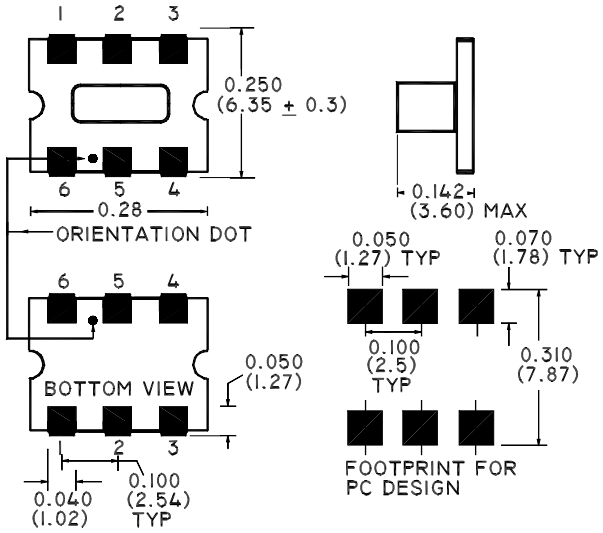
E-Series RF 9:1 Transmission line Step-up Transformer 5 - 220 MHz

Features

- Surface Mount
- 9:1 Impedance Ratio
- Available on Tape and Reel



SM-55 Package



Description

M/A-COM's MABAES0022 is a 9:1 RF transmission line transformer in a low cost, surface mount package. Impedence 75 Ohms to 337 Ohms.

Electrical Specifications @25°C

Parameter		Units	Typical	Minimum	Maximum
Frequency Range 5-220		MHz	—	—	—
Insertion Loss 1 {From Pin 6 to 1 & From Pin 4 to 3}					
(Short Connections)	5 - 155 MHz	dB	0.2	—	0.5
	155-220 MHz	dB	0.8	—	1.0
Amplitude Imbalance 1	5 - 55 MHz	dB	0.03	—	0.2
	55 –155 MHz	dB	0.04	—	0.3
	155 –220 MHz	dB	0.14	—	0.5
Phase Imbalance 1	5-55 MHz	°	0.5	—	1.0
	55 –155 MHz	°	1.1	—	2.0
	155 –220 MHz	°	1.5	—	2.5
Insertion Loss 2 {From Pin 6 to 3 & From Pin 4 to 1}					
(Cross connections)	5 - 55 MHz	dB	0.8	—	1.0
	55-100 MHz	dB	1.0	—	1.2
	100-220 MHz	dB	1.4	—	1.8
Amplitude Imbalance 2	5 - 55 MHz	dB	0.03	—	0.2
	55 –155 MHz	dB	0.04	—	0.3
	155 –220 MHz	dB	0.14	—	0.5
Phase Imbalance 2	5-55 MHz	°	1.0	—	2.0
	55 –100 MHz	°	1.4	—	3.0
	100 –220 MHz	°	2.5	—	4.0
Input Return Loss	5-220 MHz	dB	10	8	—

Specifications subject to change without notice.

S 1617 G

V1.0

- **North America:** Tel. (800) 366-2266, Fax (800) 618-8883
- **Asia/Pacific:** Tel.+81-44-844-8296, Fax +81-44-844-8298
- **Europe:** Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

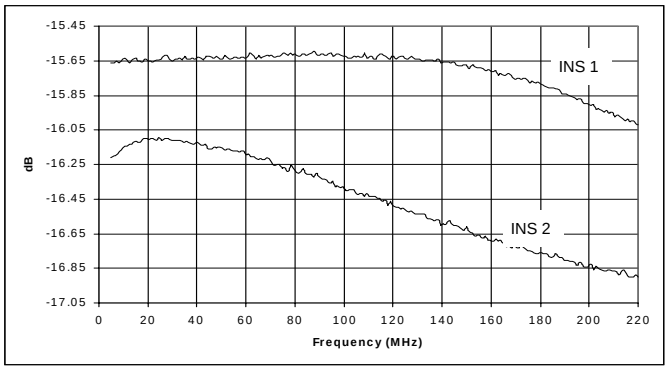
Visit www.macom.com for additional data sheets and product information.

Absolute Maximum Ratings

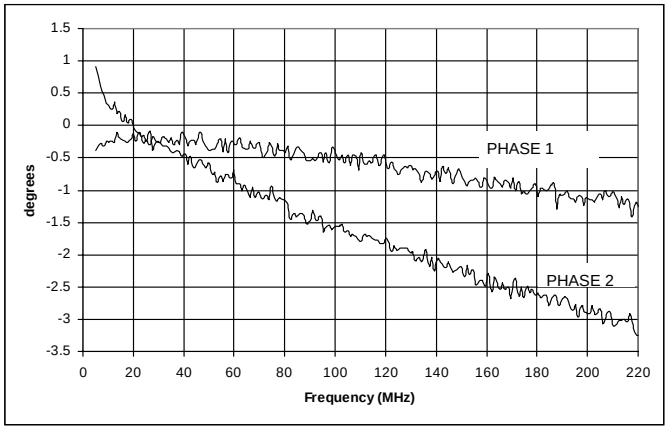
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Operating Temperature	-20°C to +85°C
Storage Temperature	-20°C to +85°C

Typical Performance @ +25°C

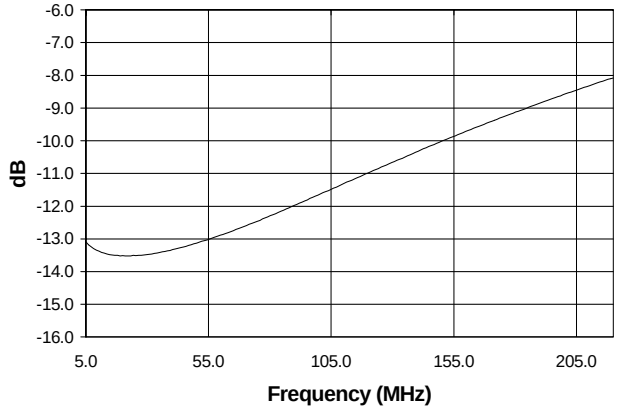
Insertion Loss 1 & 2 (Reference Level –15.45dB)



Phase Imbalance



Input Return Loss

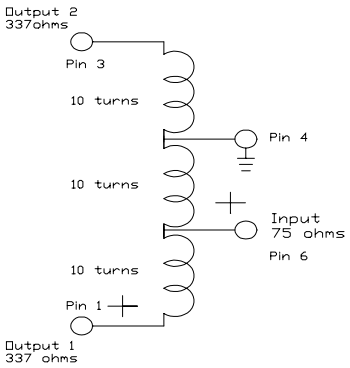


Functional Configuration

Function	Config 1 Pin No.	Config 2 Pin No.
Input	6	4
Output 1	1	3
Output 2	3	1
Ground	4	6
Not Connected	2,5	2,5

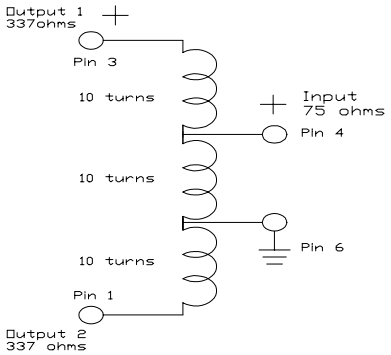
Note: Terminate unused output

Schematic For Config 1

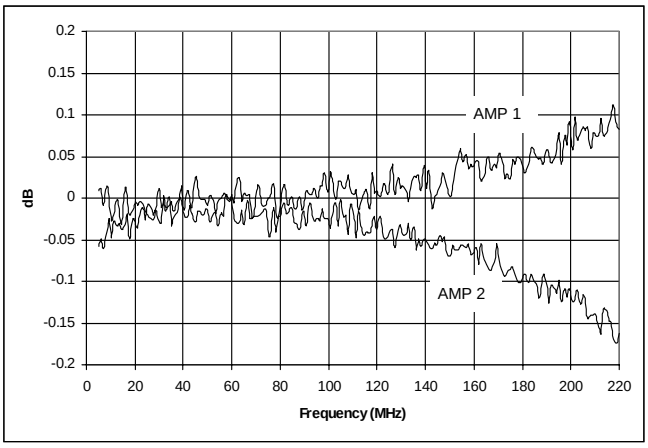


When Pin 4 is the I/P Pin 6 is ground
And when Pin 6 is the I/P Pin 4 is ground.

Schematic For Config 2



Amplitude Imbalance



S 1617 G

V1.0

Specifications subject to change without notice.

- **North America:** Tel. (800) 366-2266, Fax (800) 618-8883
- **Asia/Pacific:** Tel.+81-44-844-8296, Fax +81-44-844-8298
- **Europe:** Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

Visit www.macom.com for additional data sheets and product information.

tyco Electronics MACOM