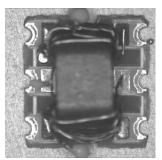
MABAES0022

Technology Solutions

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

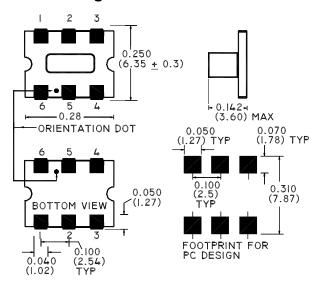


Description

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

SM-55 Package



Parameter Frequency Range 5-220 Insertion Loss 1 (From Pin 6 to 1 & From Pin 4 to 3)		Units MHz	Typical —	Minimum —	Maximum —						
						(Short Connections)	5 - 155 MHz 155-220 MHz	dB dB	0.2 0.8	—	0.5 1.0
						Amplitude Imbalance 1	5 - 55 MHz 55 –155 MHz 155 –220 MHz	dB dB dB	0.03 0.04 0.14		0.2 0.3 0.5
Phase Imbalance 1	5-55 MHz 55 –155 MHz 155 –220 MHz	0 0 0	0.5 1.1 1.5		1.0 2.0 2.5						
Insertion Loss 2 (From Pir	6 to 3 & From Pin 4 to 1}										
(Cross connections)	5 - 55 MHz 55-100 MHz 100-220 MHz	dB dB dB	0.8 1.0 1.4		1.0 1.2 1.8						
Amplitude Imbalance 2	5 - 55 MHz 55 –155 MHz 155 –220 MHz	dB dB dB	0.03 0.04 0.14		0.2 0.3 0.5						
Phase Imbalance 2	5-55 MHz 55 –100 MHz 100 –220 MHz	0 0 0	1.0 1.4 2.5		2.0 3.0 4.0						
Input Return Loss	5-220 MHz	dB	10	8	_						

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. S 1617 G

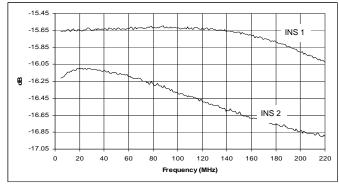
1

Absolute Maximum Ratings

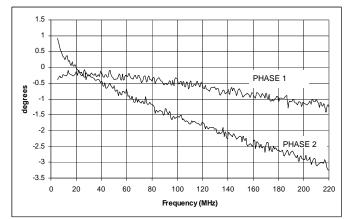
Parameter	Absolute Maximum	
RF Power	250 mW	
DC Current	30 mA	
Operating Temperature	-20°C to +85°C	
Storage Temperature	-20°C to +85°C	

Typical Performance @ +25°C

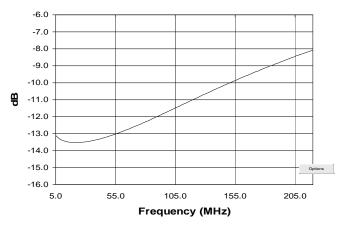
Insertion Loss 1 & 2 (Reference Level -15.45dB)



Phase Imbalance



Input Return Loss



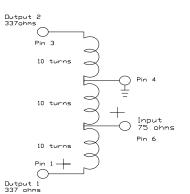
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Functional Configuration

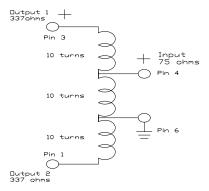
Function	Config 1 Pin No.	Config 2 Pin No.	
Input	6	4	
Output 1	1	3	
Output 2	3	1	
Ground	4	6	
Not Connected	2,5	2,5	

Note: Terminate unused output Schematic For Config 1

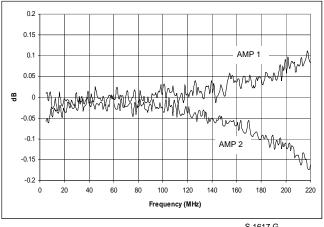


When Pin 4 is the I/P Pin 6 is ground And when Pin 6 is the I/P Pin 4 is ground.

Schematic For Config 2



Amplitude Imbalance



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