

MG-TC1-1-13M

RF Transformer 50Ω 4.5~3000MHz 1: 1

MECSINE 兆讯

RF Transformer

For 4.5-3000MHz

MG-TC1-1-13M

Surface Mount

All Use For RF & Microwave

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APPLICATIONS

- 1, VHF/UHF receivers/transmitters
- 2, push-pull amplifiers
- 3, Impedance matching



DESCRIPTION

The MG-TC1-1-13M is a coil balun by surface mount package. It usable over 4.5-3000 MHZ and ideal for balanced amplifier and impedance matching with excellent amplitude unbalance, 0.6 dB typ. and phase unbalance, 3 deg typ. All components are 100% RF tested.

MAXIMUM RATINGS

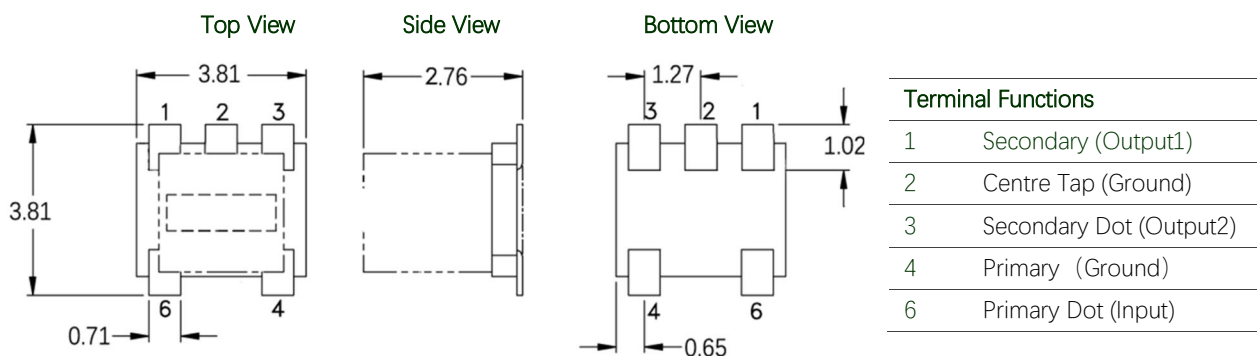
Parameter	Ratings	Units
Operating Temperature	-40 to 85	°C
Storage Temperature	-55 to 105	°C
RF Power	0.25	W
DC Current	30	mA

ELECTRICAL SPECIFICATIONS

Parameter	Frequency Range (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio	4.5 to 3000		1		:1
Unbalance Port VSWR	4.5 to 3000			2.5	MHz
Insertion Loss	4.5 to 1000			1.0	dB
	1000 to 3000			1.5	dB
Phase Unbalance	4.5 to 1000			1.5	Deg.
	1000 to 3000			2.5	Deg.
Amplitude Unbalance	4.5 to 1000			0.5	dB
	1000 to 3000			1.5	dB

- Ta: +25±5°

SHAPES AND DIMENSIONS



Unit: mm

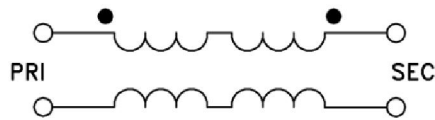
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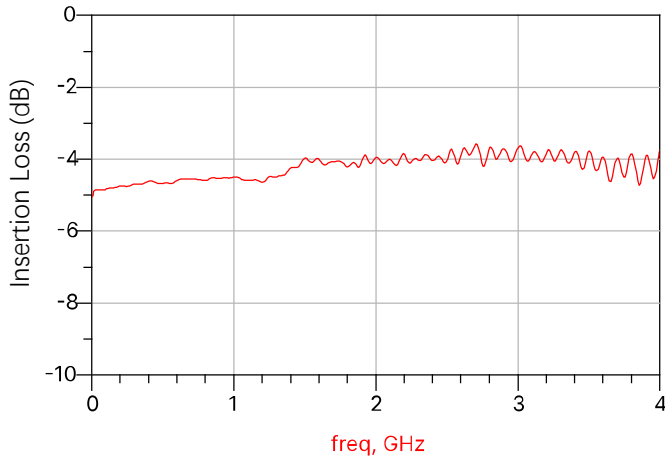
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PORT CONFIGURATION

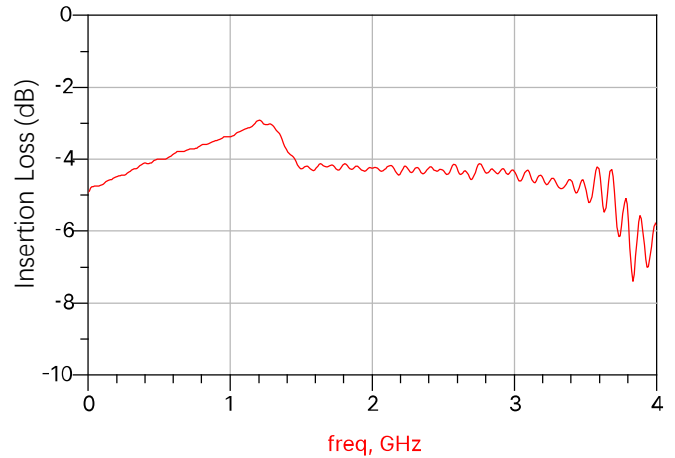


FREQUENCY CHARACTERISTICS

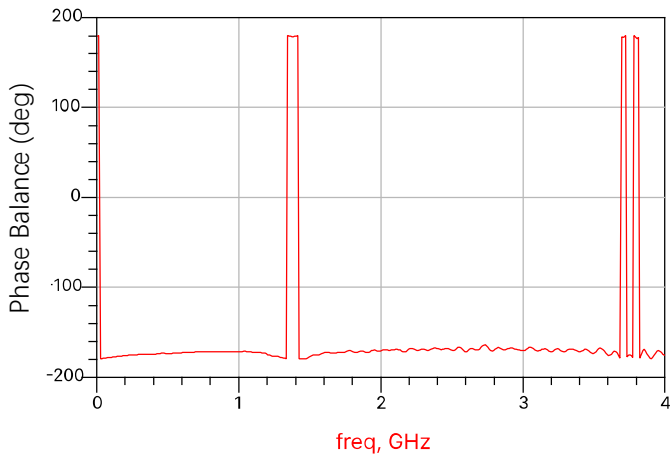
Main Line Loss (Output1)



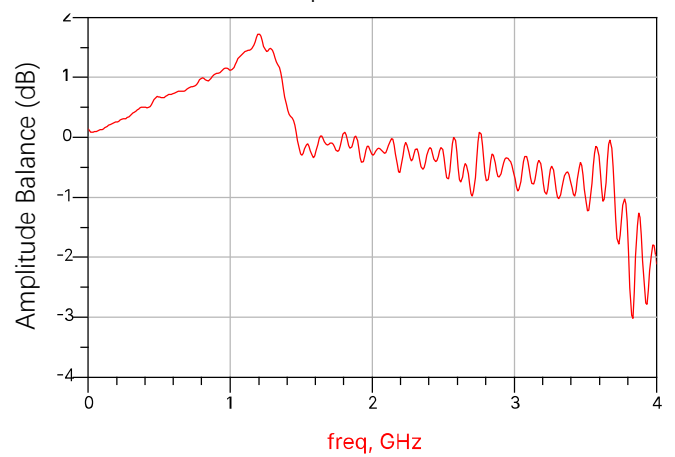
Main Line Loss (Output2)



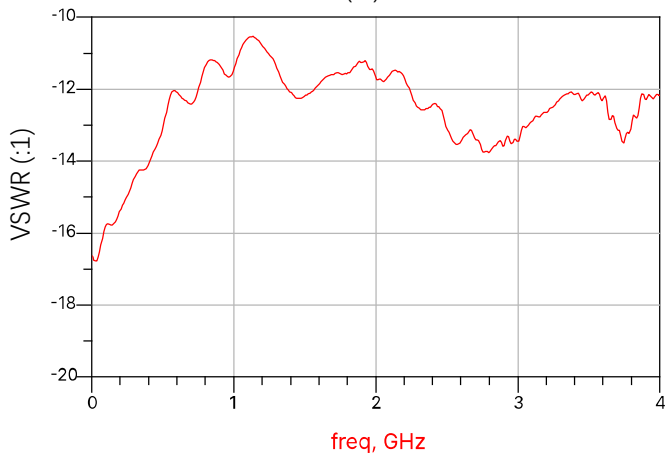
Phase Balance



Amplitude Balance



VSWR (:1)



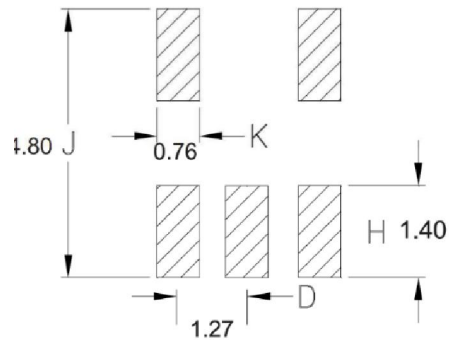
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RECOMMENDED LAND PATTERN AND EVALUATION BOARD



Device	Package	Reel	Shipping
MG-TC1-1-13M	3.81*3.81mm	13"	2000 Reel

Revision	Description	Date
Rev0	Preliminary	2024/2/26

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