

MG-TC1-1-13M

RF Transformer 50Ω 10~3000MHz 1: 1

MECSINE 兆讯

RF Transformer

For 10-3000MHz

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 10-3000 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

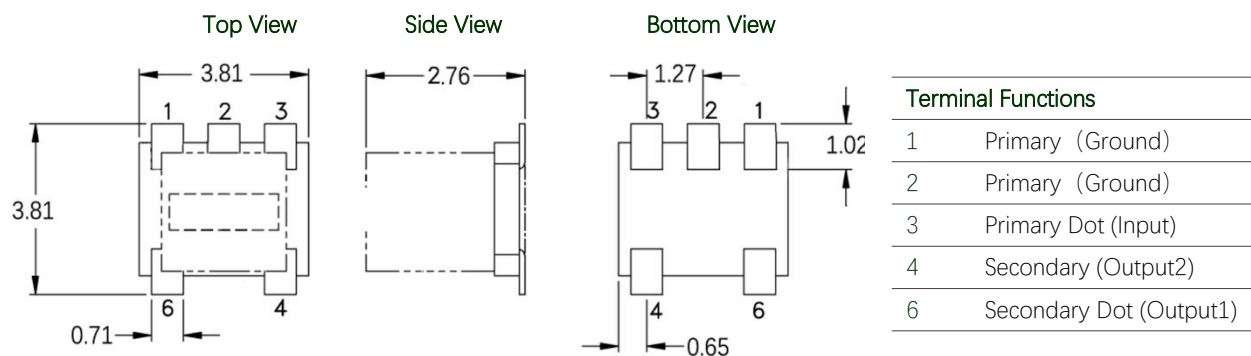
Parameter	Ratings	Units
Operating Temperature	-40 to 85	°C
Storage Temperature	-55 to 105	°C
RF Power	0.25	W
DC Current	30	mA

ELECTRICAL SPECIFICATIONS

Parameter	Frequency Range (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio	10 to 3000		1		:1
Unbalance Port VSWR	10 to 3000			2.5	MHz
Insertion Loss	10 to 1000			1.0	dB
	1000 to 3000			1.5	dB
Phase Unbalance	10 to 1000			1.5	Deg.
	1000 to 3000			2.5	Deg.
Amplitude Unbalance	10 to 1000			0.5	dB
	1000 to 3000			1.5	dB

- Ta: +25±5°

SHAPES AND DIMENSIONS



Unit: mm

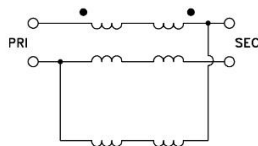
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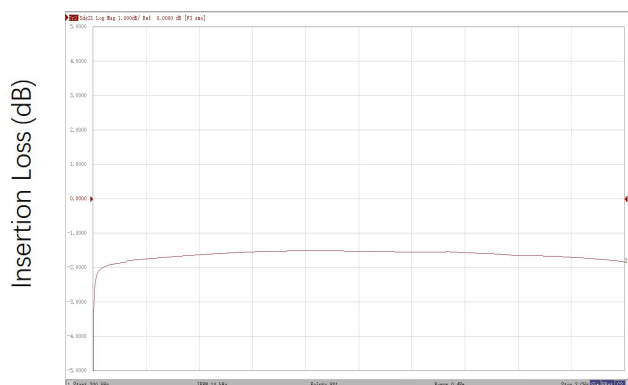
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PORT CONFIGURATION

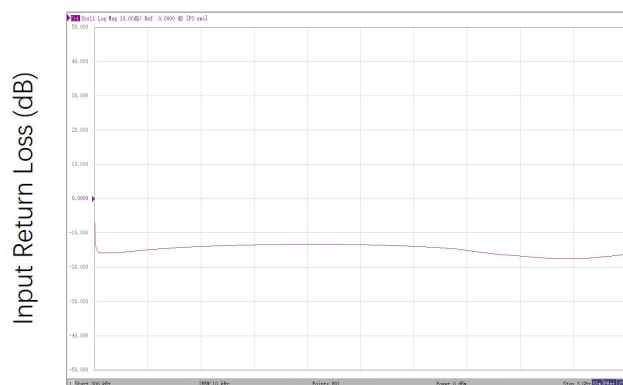


FREQUENCY CHARACTERISTICS

Insertion Loss



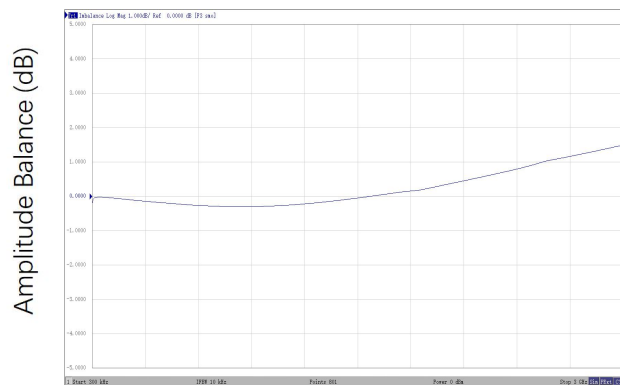
Input Return Loss



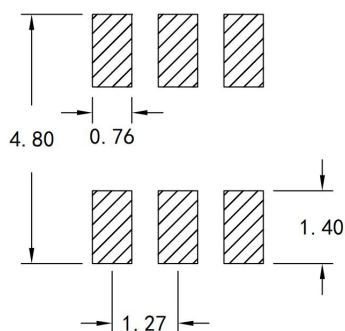
Phase Balance



Amplitude Balance



RECOMMENDED LAND PATTERN AND EVALUATION BOARD



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

Revision	Description	Date
Rev0	Preliminary	2024/2/26
Rev1	Terminal Functions	2025/4/23
Rev2		2026/7/15

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