

MG-TC1-1T

RF Transformer 50Ω 0.45~500MHz 1: 1

MECSINE 兆讯

RF Transformer

For 0.45-500MHz

MG-TC1-1T

Surface Mount

All Use For RF & Microwave

Shenzhen Megsine technology co., ltd www.megsine.com sales@megsine.com may contain us for future information
Feb. 03, 2024

MG-TC1-1T

RF Transformer 50Ω 0.45~500MHz 1: 1

MECSINE 兆讯

APPLICATIONS

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



DESCRIPTION

The MG-TC1-1T is a coil balun by surface mount package. It is usable over 0.4-500 MHz and ideal for balanced amplifier and impedance matching with excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 2 deg typ. All components are 100% RF tested.

MAXIMUM RATINGS

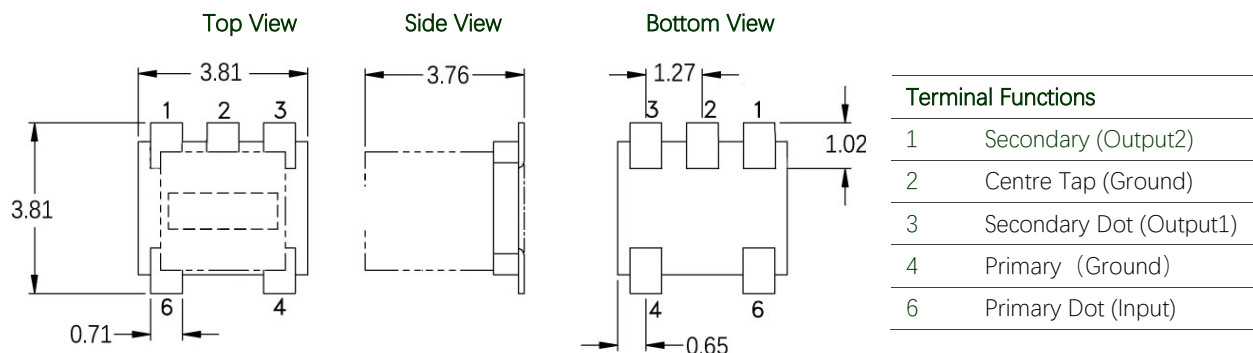
Parameter	Ratings	Units
Operating Temperature	-40 to 85	°C
Storage Temperature	-55 to 105	°C
RF Power	0.25	W
DC Current	30	mA

ELECTRICAL SPECIFICATIONS

Parameter	Frequency Range (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio	0.45 to 500		1		:1
Unbalance Port VSWR	0.45 to 500			2.5	MHz
Insertion Loss	0.45 to 100			1.5	dB
	100 to 300			2	dB
	300 to 500			2.5	dB
Phase Unbalance	1 to 100			2	Deg.
	0.45 to 500			5	Deg.
Amplitude Unbalance	1 to 100			0.5	dB
	0.45 to 300			1	dB

- Ta: +25±5°

SHAPES AND DIMENSIONS



All Use For RF & Microwave

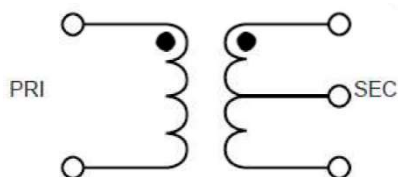
MG-TC1-1T

RF Transformer 50Ω 0.45~500MHz 1: 1

MECSINE 兆讯

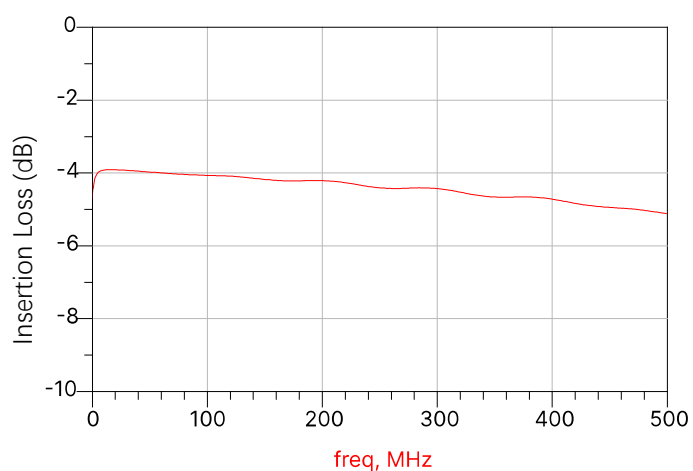
Unit: mm

PORT CONFIGURATION

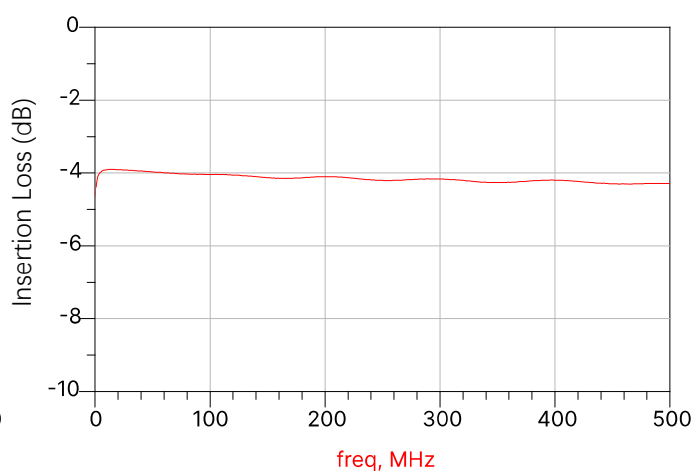


FREQUENCY CHARACTERISTICS

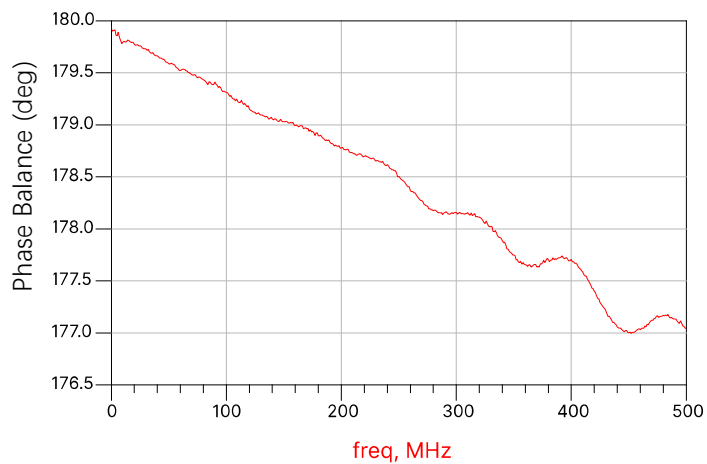
Main Line Loss (Output1)



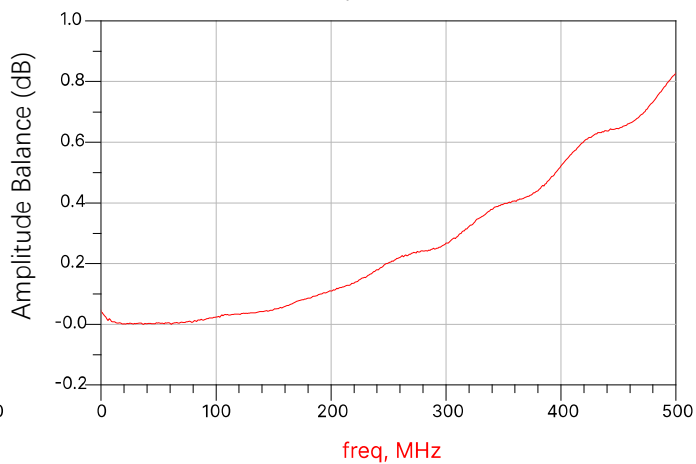
Main Line Loss (Output2)



Phase Balance



Amplitude Balance



All Use For RF & Microwave

Shenzhen Megsine technology co., ltd www.megsine.com sales@megsine.com may contain us for future information

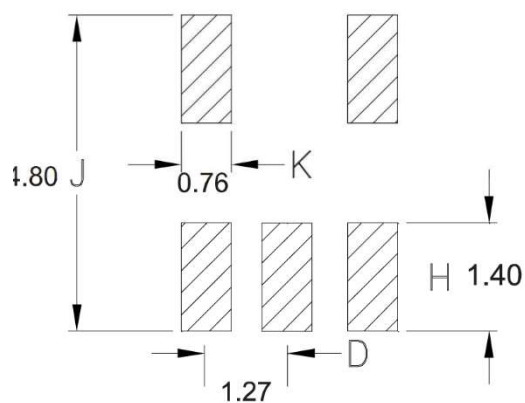
Feb. 03, 2024

MG-TC1-1T

RF Transformer 50Ω 0.45~500MHz 1: 1

MECSINE 兆讯

RECOMMENDED LAND PATTERN AND EVALUATION BOARD



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

Revision	Description	Date
Rev0	Preliminary	2024/2/26
Rev1.0	Insertion Loss	2024/12/18

All Use For RF & Microwave