

Features

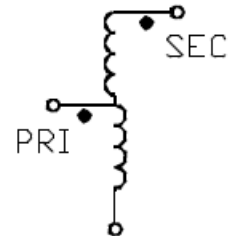
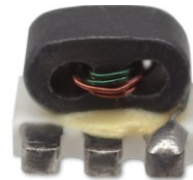
- 1.5:1 Impedance Ratio
- Surface Mount Package
- Tape and Reel Packaging Available
- 260°C Reflow Compatible
- RoHS* compliant version of the ETC1.5-7

Description

The MABA-008752-TC1P57 is a RoHS compliant 1.5:1 RF transformer in a surface mount package. Typical applications include single to single mode impedance conversion and matching.

The MABA-008752-TC1P57 is available in a SM-22 surface mount package and is designed to be utilized in both RoHS and standard reflow profiles. Parts are packaged in tape & reel.

Schematic



Pin Configuration

Pin #	Function
1	Primary & Secondary
2	Primary Dot
3	Secondary Dot
4,5	Not Connected

Electrical Specifications: Freq. = 2 - 1000 MHz, $T_A = 25^\circ\text{C}$, $Z_0 = 50 \Omega$, $P_{IN} = 0 \text{ dBm}$

Parameter	Frequency	Units	Min.	Typ.	Max.
Insertion Loss	2 - 300 MHz	dB	—	0.4	0.5
	2 - 600 MHz			0.4	0.6
	2 - 1000 MHz			0.5	1.0

Ordering Information¹

Part #	Description
MABA-008752-TC1P57	2000 piece reel

1. Reference Application Note M513 for reel size information.

Absolute Maximum Ratings

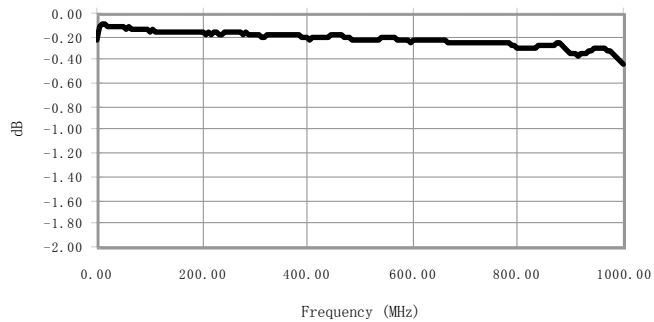
Parameter	Absolute Maximum
Impedance	50 Ω nominal
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

1.5:1 E-Series RF Transformer 2 - 1000 MHz

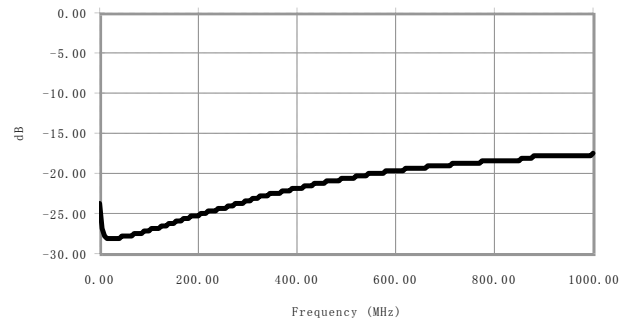
Rev. V4

Typical Performance Curves: $T_A = 25^\circ\text{C}$, $Z_0 = 50 \Omega$, $P_{IN} = 0 \text{ dBm}$

Insertion Loss

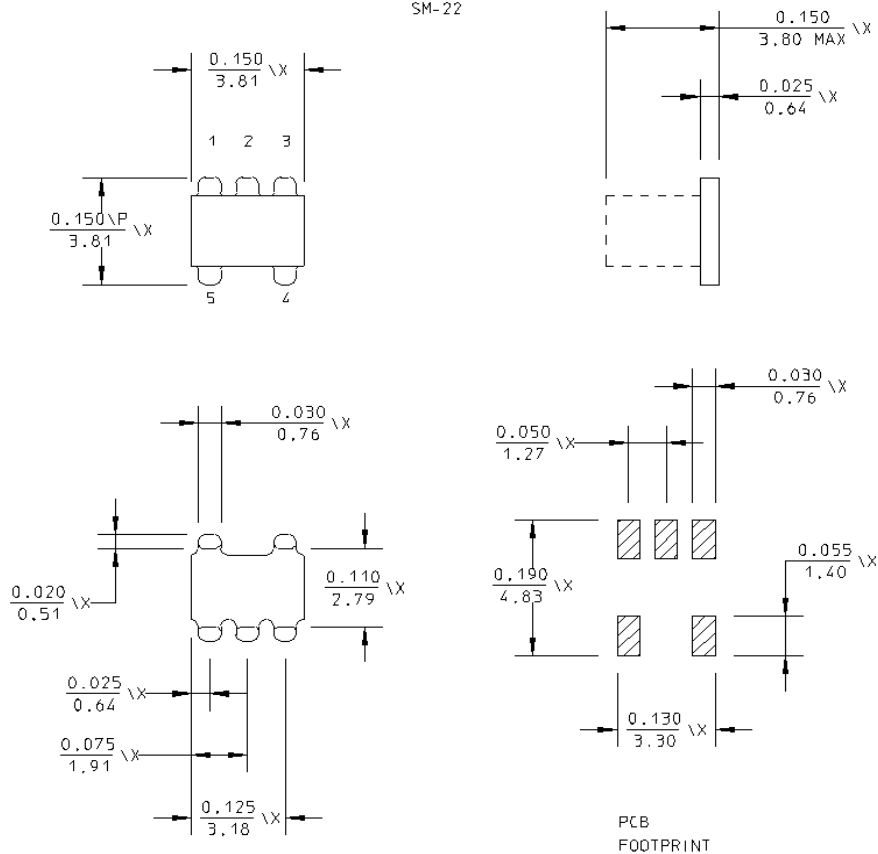


Return Loss



Outline Drawing (SM-22)

SM-22



Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010, unless otherwise stated

MACOM Technology Solutions Inc. All rights reserved.

Information in this document is provided in connection with MACOM Technology Solutions Inc ("MACOM") products. These materials are provided by MACOM as a service to its customers and may be used for informational purposes only. Except as provided in MACOM's Terms and Conditions of Sale for such products or in any separate agreement related to this document, MACOM assumes no liability whatsoever. MACOM assumes no responsibility for errors or omissions in these materials. MACOM may make changes to specifications and product descriptions at any time, without notice. MACOM makes no commitment to update the information and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to its specifications and product descriptions. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document.

THESE MATERIALS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, RELATING TO SALE AND/OR USE OF MACOM PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, CONSEQUENTIAL OR INCIDENTAL DAMAGES, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. MACOM FURTHER DOES NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE INFORMATION, TEXT, GRAPHICS OR OTHER ITEMS CONTAINED WITHIN THESE MATERIALS. MACOM SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR LOST PROFITS, WHICH MAY RESULT FROM THE USE OF THESE MATERIALS.

MACOM products are not intended for use in medical, lifesaving or life sustaining applications. MACOM customers using or selling MACOM products for use in such applications do so at their own risk and agree to fully indemnify MACOM for any damages resulting from such improper use or sale.