

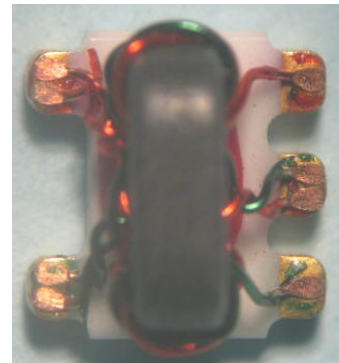
## Features

- Surface mount
- 1:4 Impedance Ratio
- RoHS\* Compliant
- Pb Free
- 260°C reflow compatible.
- Available on Tape and Reel

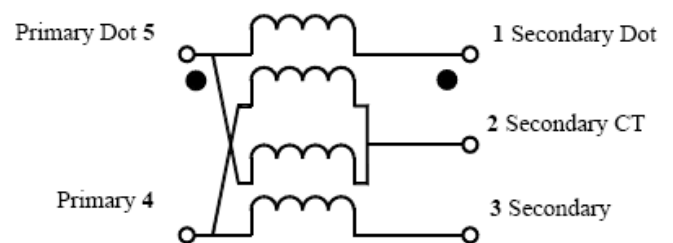
## Description

MABA-008639-TC41T7 is a wire welded RoHS version of ETC4-1T-7. This 1:4 RF transformer is assembled in a low cost, surface mount package.

Ideally suited for high volume cellular and wireless applications. Typical applications include single to balanced mode conversion and impedance matching.



## Schematic



## Ordering Information

Part Number	Package
MABA-008639-TC41T7	2000 piece reel

## Pin Configuration

Pin No.	Function
1	Secondary Dot
2	Secondary CT
3	Secondary
4	Primary
5	Primary Dot

\* Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.

**Electrical Specifications:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50 \Omega$**

Parameter	Frequency	Units	Min	Typ	Max
Insertion Loss	6 - 600 MHz	dB	—	—	2.0
	600 - 1000 MHz				3.0
Amplitude Unbalance	6 - 1000 MHz	dB	—	—	1.0
Phase Unbalance	6 - 1000 MHz	°	—	—	10

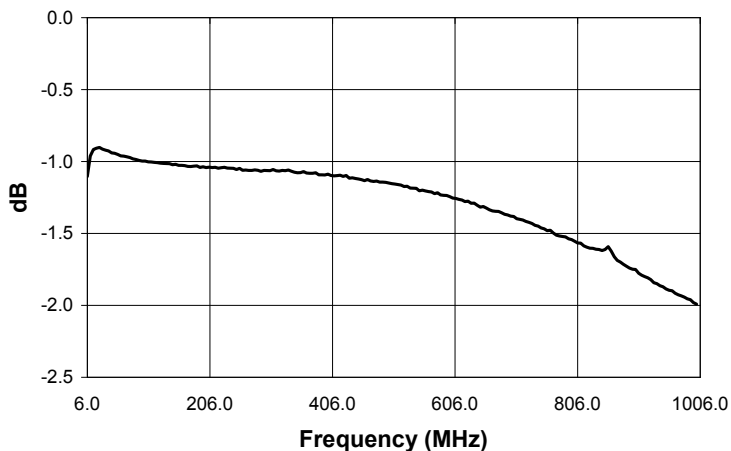
**Recommended Maximum Ratings<sup>1,2</sup>**

Parameter	Value
RF Power	250 mW
DC Current	30 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C

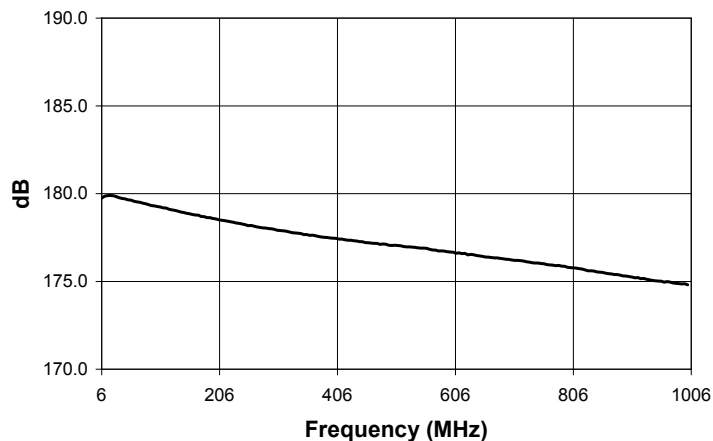
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. MACOM does not recommend sustained operation near these survivability limits.

## Typical Performance Curves

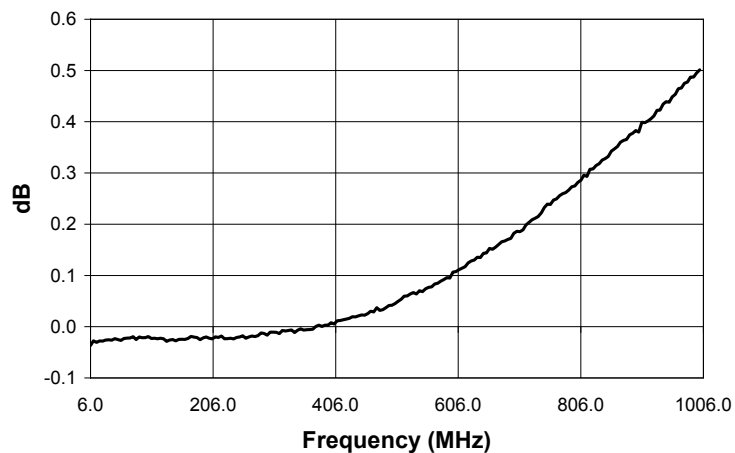
*Insertion Loss*



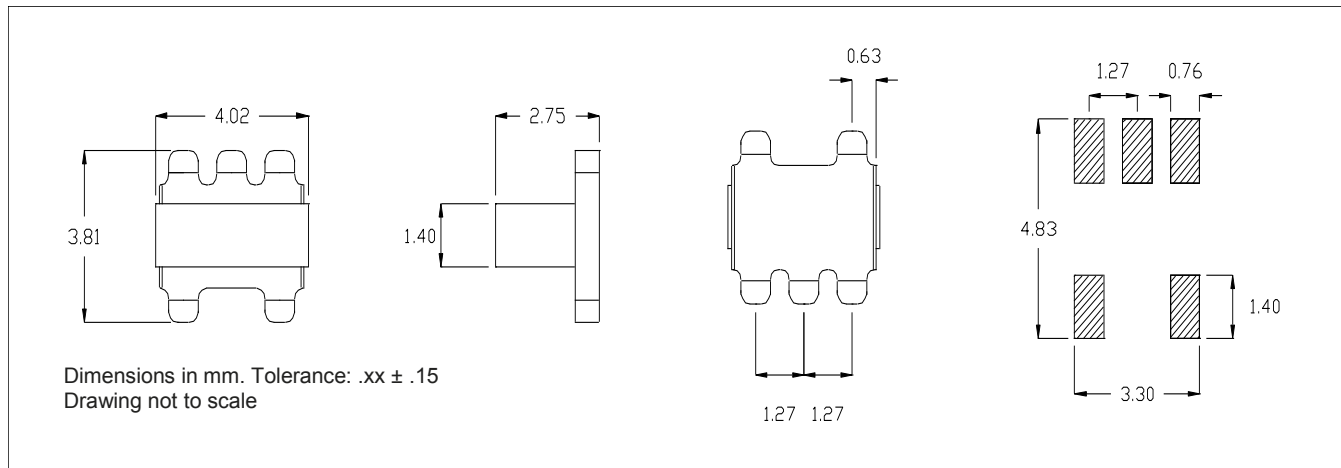
*Phase Unbalance*



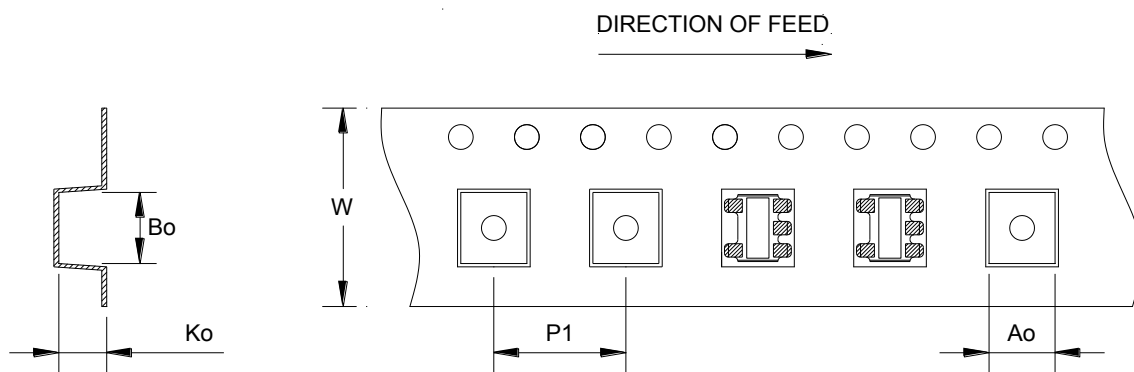
*Amplitude Unbalance*



## Component Dimensions



## Tape & Reel Information



Item	Dimension
$A_o$	4.00mm +/-0.1mm
$B_o$	4.30mm +/-0.1mm
$K_o$	2.90mm +/-0.1mm
$W$	12.00mm +/-0.3mm
$P_1$	8.00mm +/-0.1mm

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