

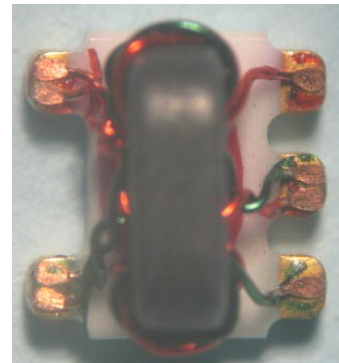
Features

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

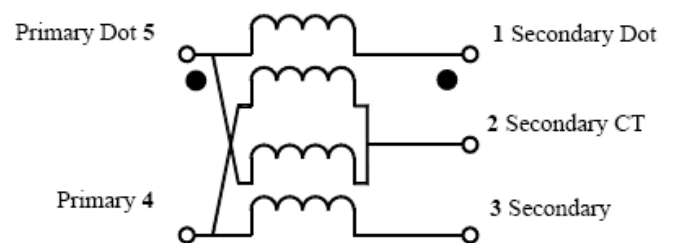
Description

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

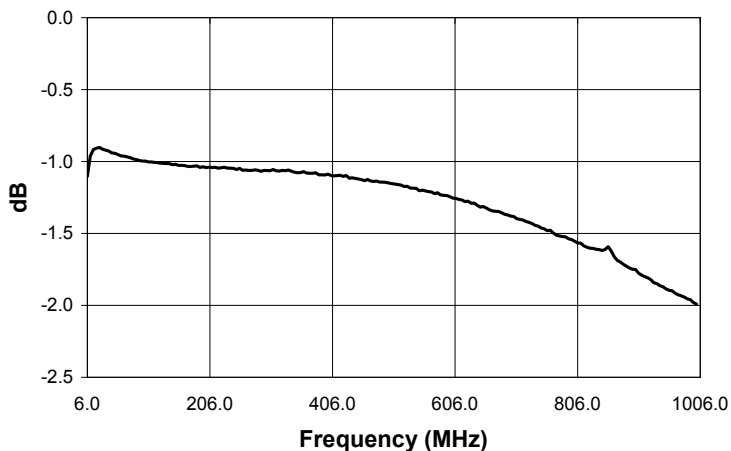
Recommended Maximum Ratings^{1,2}

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

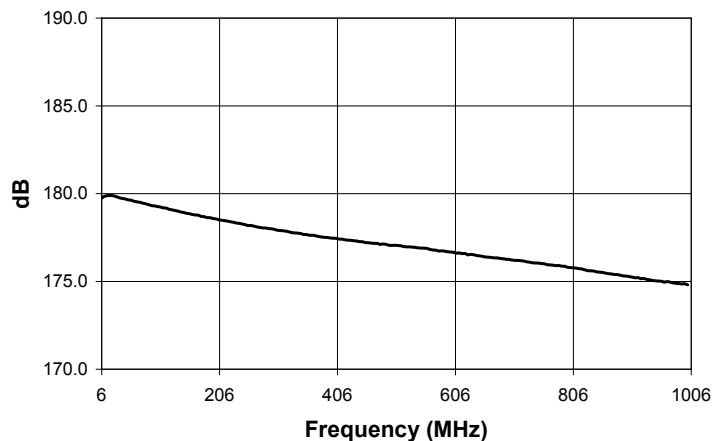
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. MACOM does not recommend sustained operation near these survivability limits.

Typical Performance Curves

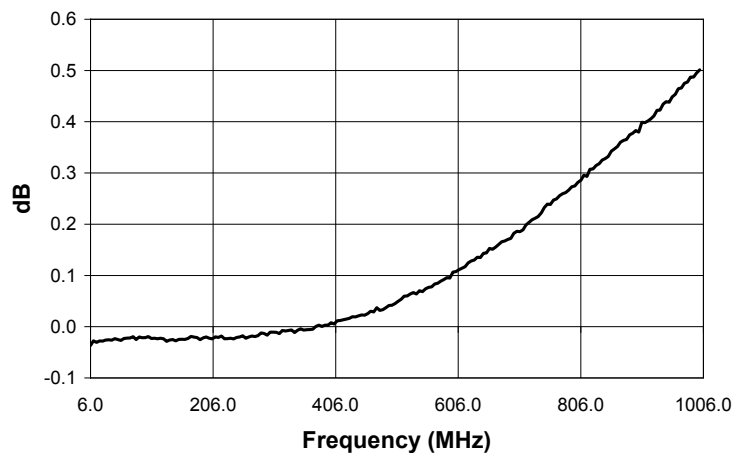
Insertion Loss



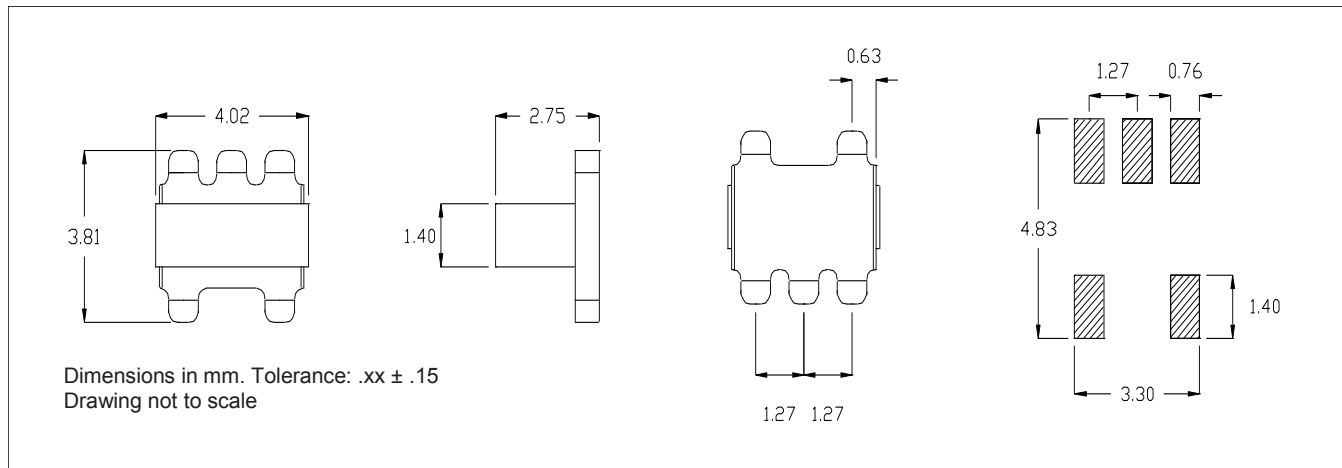
Phase Unbalance



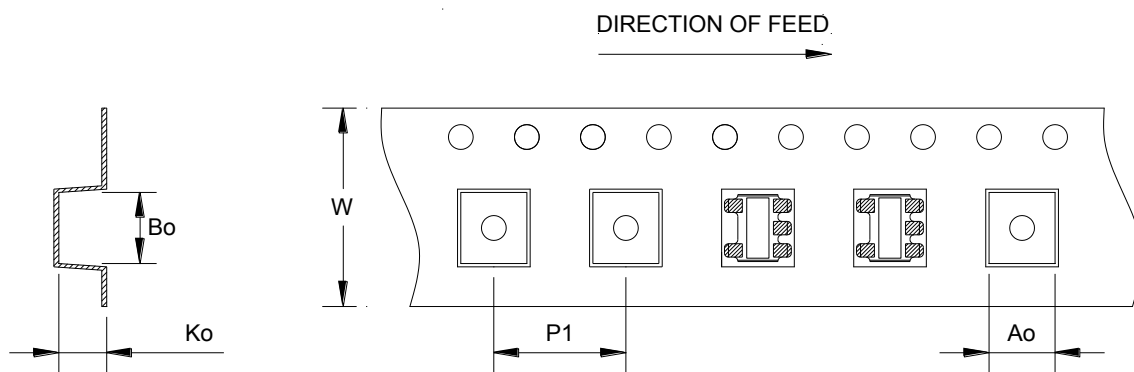
Amplitude Unbalance



Component Dimensions



Tape & Reel Information



Item	Dimension
Ao	4.00mm +/-0.1mm
Bo	4.30mm +/-0.1mm
Ko	2.90mm +/-0.1mm
W	12.00mm +/-0.3mm
P1	8.00mm +/-0.1mm

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