

E-Series RF 1:4 Transmission Line Step-up Transformer 6 -1000 MHz

Rev. V3

Features

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

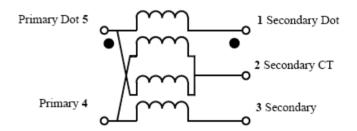
Description

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.



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Electrical Specifications: $T_A = 25$ °C, $Z_0 = 50 \Omega$

Parameter	Frequency	Units	Min	Тур	Max
Insertion Loss	6 - 600 MHz 600 - 1000 MHz	dB		_	2.0 3.0
Amplitude Unbalance	6 - 1000 MHz	dB		_	1.0
Phase Unbalance	6 - 1000 MHz	o		_	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	

Exceeding any one or combination of these limits may cause permanent damage to this device.

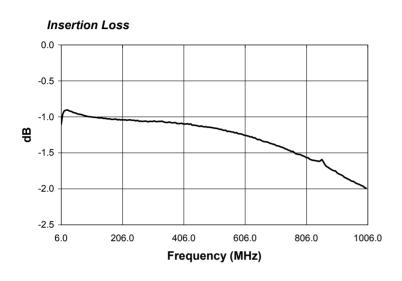
MACOM does not recommend sustained operation near these survivability limits.

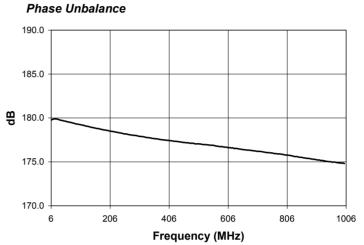


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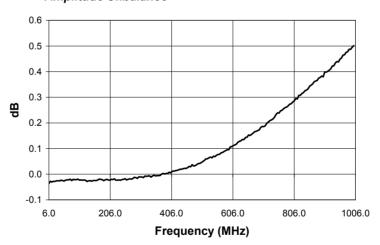
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Typical Performance Curves





Amplitude Unbalance

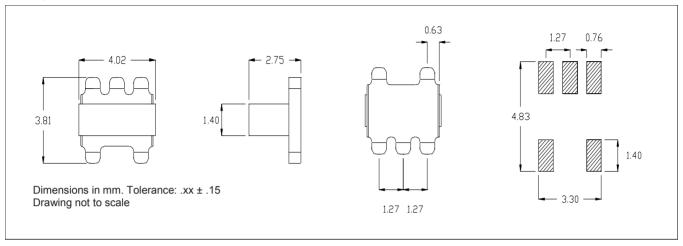




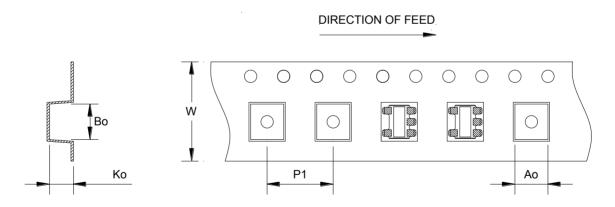
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Component Dimensions



Tape & Reel Information



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



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