# ETC1.6-4-2-3



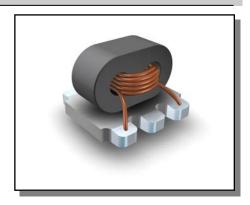
# E-SerieS RF 4:1 Transmission Line Transformer 500-3000MHz

#### **RELEASED**

Rev. V2

### **Features**

- Surface Mount
- 4:1 Impedance Ratio
- RoHS\* Compliant, lead free
- · CT on Secondary
- Available on Tape and Reel



# **Electrical Specifications @25°C**

Parameter	Units	Nominal	Maximum	Mean (x)	Sigma (σ)
Frequency Range 500 - 3000	MHz	_			
Insertion Loss (f <sub>L</sub> - f <sub>U</sub> ) 500 - 750 MHz 750 - 1200 MHz 1200 - 3000 MHz	dB dB dB	_ _ _	3.0 1.0 3.0	 0.22 	 0.159 

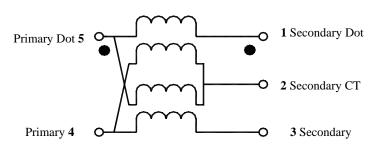
Note: Mean and Sigma calculated from average loss at @  $(f_{U}$  -  $f_{L})\!/2 + f_{L}$ 

Please Note that the photograph above indicates package only, not actual unit.

## **Pin Configuration**

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

### **Schematic**



<sup>•</sup> India Tel: +91.80.43537383

<sup>•</sup> China Tel: +86.21.2407.1588



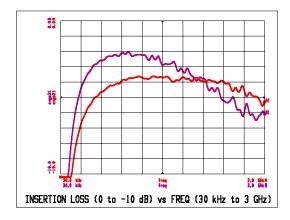
E-SerieS RF 4:1 Transmission Line Transformer 500-3000MHz

**RELEASED** 

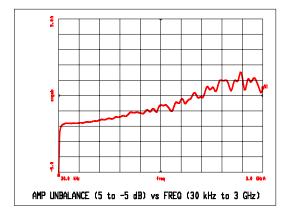
Rev. V2

# Typical Performance Over Extended Bandwidth (30kHz - 3.0GHz)

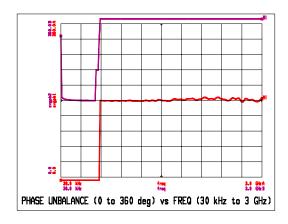
#### **Insertion Loss**



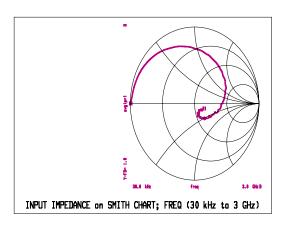
### **Amplitude Unbalance**



#### **Phase Unbalance**



#### Input Impedance



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# ETC1.6-4-2-3

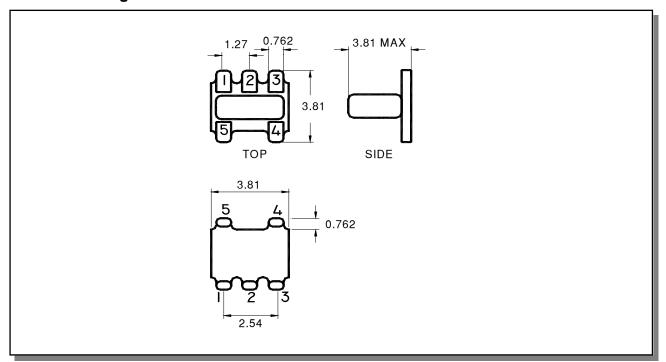


# E-SerieS RF 4:1 Transmission Line Transformer 500-3000MHz

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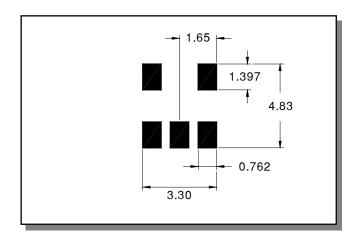
Rev. V2

## **Outline Drawing**



- Dimensions in mm.
- Tolerance: ±0.2mm unless otherwise noted.
- 3. Model number and lot code are printed on the reel.
- Termination plating is Au.

# **Recommended Footprint**



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Visit www.macomtech.com for additional data sheets and product information.



# E-SerieS RF 4:1 Transmission Line Transformer 500-3000MHz

**RELEASED** 

Rev. V2

# **Tape & Reel Information**

Parameter	Units	Value	
Qty per reel	-	2000	
Reel Size	mm	330	
Tape Width	mm	12.00	
Pitch	mm	8.00	
Ao	mm	4.39	
Во	mm	4.35	
Ko	mm	3.67	
Reference Application Note ANI-019 for orientation			

# **Ordering Information**

Part Number	Description	
ETC1.6-4-2-3	2000 piece reel	
ETC1.6-4-2-3TB	Customer Test Board	

## **Recommended Maximum Ratings**

Parameter	Value		
RF power	250mW		
DC current	30mA		
Operating Temperature	-30°C to +85°C		
Storage Temperature	-30°C to +85°C		

# **ECO History**

Rev	Date	Description	Ву
V2	13 May 2010	Corrected the dimensions on case style drawing and changed to the new format	СВ

Visit www.macomtech.com for additional data sheets and product information.