Surface Mount **RF Transformer**

50Ω

1.5 to 500 MHz

⊢-D TYP Ö 🛛 🖉 K TYP

Suggested Layout, Tolerance to be within .002

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0.64

grams

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wt

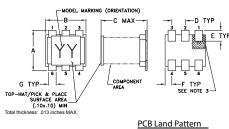
Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	250mW
DC Current	30mA
Permanent damage may occur if any	of these limits are exceeded.

Pin Connections

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
NOT USED	2,5

Outline Drawing



Outline Dimensions (inch)

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Demo Board MCL P/N: TB-145

Config. C

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Features

- excellent amplitude unbalance. 0.2 dB typ.
- excellent phase unbalance, 4 deg. typ. in 1 dB bandwidth
- plastic base with solder plated leads
- aqueous washable
- Applications
- impedance matching
- · balanced to unbalanced transformation
- push-pull amplifier



TCM1-1X+

CASE STYLE: DB1627

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and gualifications

	Available Tape and Reel at no extra cost
Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500
13"	1000, 2000

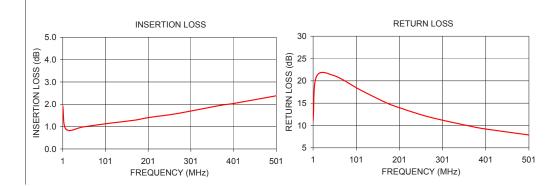
Electrical Specifications

Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
1	1.5-500	1.5-500	2.5-400	5-350

Insertion Loss is referenced to mid-band loss, 0.9 dB typ

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
 1.00	1.93	11.00	
8.80	0.88	20.96	
50.00	0.99	21.15	
110.00	1.15	17.98	
170.00	1.29	15.11	
200.00	1.40	14.01	
270.00	1.59	11.90	
369.00	1.95	9.77	
402.00	2.04	9.20	
501.00	2.38	7.88	



Notes

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PRI

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A Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document. B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp



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