# Surface Mount **RF Transformer**

50Ω

# 2 to 280 MHz

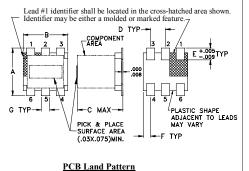
# **Maximum Ratings**

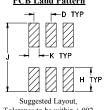
Operating Temperature	-20°C to 85°C		
Storage Temperature	-55°C to 100°C		
RF Power	0.25W		
DC Current	30mA		
Permanent damage may occur if any of these limits are exceeded.			

#### **Pin Connections**

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

# **Outline Drawing**



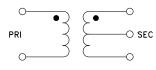


Tolerance to be within  $\pm 002$ 

#### Outline Dimensions (inch)

А	В	С	D	E	F
.160	.150	.160	.050	.040	.025
4.06	3.81	4.06	1.27	1.02	0.64
G .028	H .065	J .190	K .030		wt grams
0.71	1.65	4.83	0.76		0.15

# Config. A



#### **Features**

- excellent amplitude unbalance, 0.15 dB typ. and phase unbalance, 1 deg typ. in 1 dB bandwidth
- plastic base with solder plated leads
- aqueous washable

#### Applications

- impedance matching
- balanced to unbalanced transformation



**TCM9-1+** 

CASE STYLE: DB714

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

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

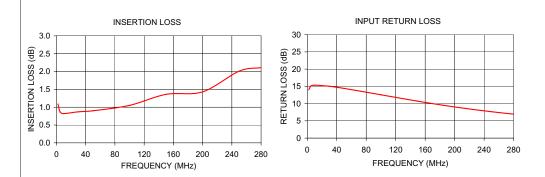
### **Transformer Electrical Specifications**

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
9	2-280	2-280	3-150	5-100

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

#### **Typical Performance Data**

	FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
	2	1.09	13.99	
	5	0.87	15.12	
	10	0.82	15.35	
	30	0.87	15.03	
	50	0.90	14.41	
	100	1.05	12.56	
	150	1.36	10.70	
	200	1.43	9.02	
	250	2.01	7.65	
1	280	2.11	6.95	



Notes

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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