# **RF Transformer**

### $50\Omega$

## 2 to 280 MHz

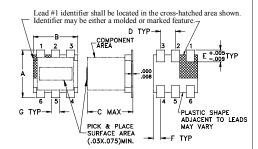
#### **Maximum Ratings**

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.			

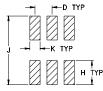
#### **Pin Connections**

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

### **Outline Drawing**



#### **PCB Land Pattern**

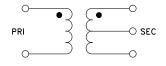


Suggested Layout, Tolerance to be within ± 002

#### Outline Dimensions (inch )

Α	В	С	D	E	F
.160	.150	.160	.050	.040	.025
4.06	3.81	4.06	1.27	1.02	0.64
G	Н	J	K		wt
G .028	H .065	J .190	.030		wt grams

#### Config. A





TCM9-1+

CASE STYLE: DB714 PRICE: \$2.19 ea. QTY (20) \$1.19 ea. QTY (100)

+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		

### **Applications**

**Features** 

• impedance matching

aqueous washable

· balanced to unbalanced transformation

unbalance, 1 deg typ. in 1 dB bandwidth

• plastic base with solder plated leads

• excellent amplitude unbalance, 0.15 dB typ. and phase

#### **Transformer Electrical Specifications**

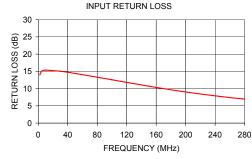
Ω <b>RATIO</b> (Secondary/Primary)	FREQUENCY (MHz)	3 dB	INSERTION LOSS*	1 dB
		MHz	MHz	MHz
9	2-280	2-280	3-150	5-100

<sup>\*</sup> Insertion Loss is referenced to mid-band loss, 0.9 dB typ

#### **Typical Performance Data**

	UENCY INSERT Hz) LOS (dB	S R. LOSS	
2	1.09	9 13.99	
5	0.87	7 15.12	
10	0.82	2 15.35	
30	0.87	7 15.03	
50	0.90	14.41	
100	1.05	12.56	
150	1.36	10.70	
200	1.43	9.02	
250	2.0	7.65	
280	2.11	6.95	





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.

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