RF Transformer

50Ω

2 to 280 MHz

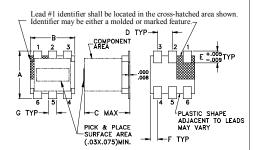
Maximum Ratings

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.

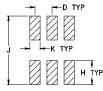
Pin Connections

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

Outline Drawing



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	K .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



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 RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		1 dB
		MHz	MHz	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

			NPUT 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
10	00	1.05	12.56
15	50	1.36	10.70
20	00	1.43	9.02
25	50	2.01	7.65
28	80	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.

 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp