Surface Mount RF Transformer

3 to 800 MHz

TCM4-1W+

CASE STYLE: DB714

*Addition of Top hat™ feature Benefits

- Allows faster pick-and-place
- Enables visual identification marking

+RoHS Compliant

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

Maximum Ratings

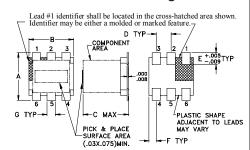
 50Ω

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.			

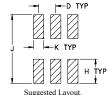
Pin Connections

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

Outline Drawing



PCB Land Pattern



Tolerance to be within ±.002

Features

- wide bandwidth. 3 to 800 MHz
- good return loss
- plastic base with solder plated leads
- aqueous washable

Applications

- CATV
- VHF/UHF
- balanced amplifier
- impedance matching

Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	3 dB MHz	INSERTION LOSS* 2 dB MHz	1 dB MHz
4	3-800	3-800	5-400	10-100

Insertion Loss is referenced to mid-band loss, 0.8 dB typ



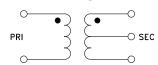
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
3.00	1.16	16.43	
5.00	1.02	18.47	
7.00	0.95	19.69	
10.00	0.93	20.74	
46.00	0.94	22.08	
100.00	1.01	21.46	
220.00	1.12	19.83	
400.00	1.28	16.64	
640.00	1.70	11.87	
800.00	2.29	9.01	

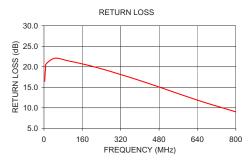
Outline Dimensions (inch)

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

Config. A







- 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