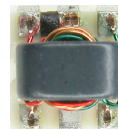


# Surface Mount RF Transformer

50Ω

3 to 300 MHz

TCM2-1T+



CASE STYLE: DB714

PRICE: \$2.09 ea. QTY (20)

\$1.09 ea. QTY (100)

**+RoHS Compliant**

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

## 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

## 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

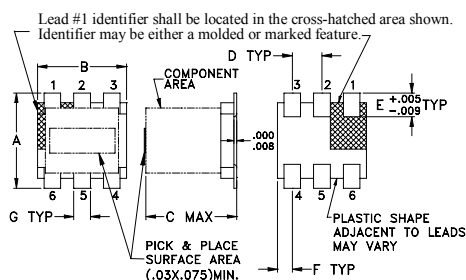
## Applications

- impedance matching
- balanced to unbalanced transformation
- push-pull amplifier

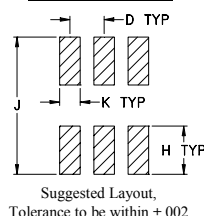
Available Tape and Reel  
at no extra cost

Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500
13"	1000, 2000

## Outline Drawing



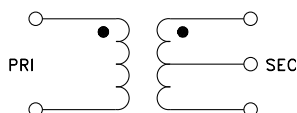
## PCB Land Pattern



## Outline Dimensions (inch)

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

## Config. A



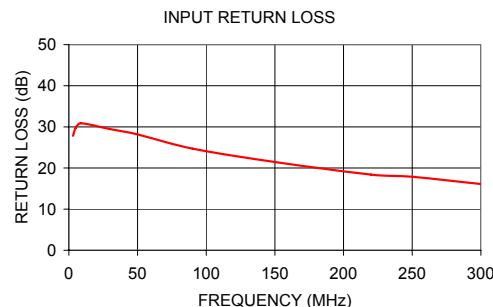
## Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*
2	3-300	1 dB MHz 3-300

\* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

## Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
3.00	0.44	27.84
5.00	0.40	29.78
9.00	0.37	30.87
30.00	0.38	29.47
50.00	0.45	28.16
90.00	0.52	24.71
150.00	0.55	21.46
220.00	0.61	18.39
250.00	0.58	17.86
300.00	0.74	16.10



## 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-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)



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