**TCM2-1T+** 

 $50\Omega$ 

3 to 300 MHz

#### **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



Generic photo used for illustration purposes only

CASE STYLE: DB714

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



## **Electrical Specifications**

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (Secondary / Primary)			2		Ohm
Frequency Range		3		300	MHz
Insertion Loss*	3 - 300		1		dB

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

## **Maximum Ratings**

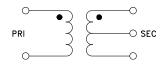
Parameter	Ratings	
Operating Temperature	-20°C to 85°C	
Storage Temperature	-55°C to 100°C	
RF Power	0.25W	
DC Current	30mA	

Permanent damage may occur if any of these limits are exceeded.

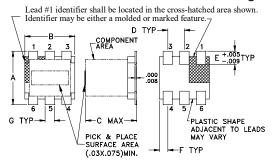
## **Pin Connections**

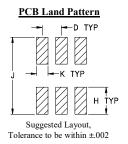
Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2
NOT USED	5

### Config. A



## **Outline Drawing**



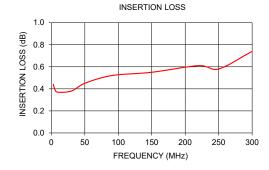


## Outline Dimensions (inch )

_	_	_	_	_	
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

## **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	
	3.00 5.00 9.00 30.00 50.00 90.00 150.00 220.00 250.00	(MHz)         LOSS (dB)           3.00         0.44           5.00         0.40           9.00         0.37           30.00         0.38           50.00         0.45           90.00         0.52           150.00         0.55           220.00         0.61           250.00         0.58	(MHz)         LOSS (dB)         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





#### **Additional 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.
- A. Perioritance and quanty attributes and continuous and continuous and expressly stated in it has 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

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