Surface Mount RF Transformer

TCM1-1X+ Upgraded Version*

*Addition of Top-hat® feature Benefits • Allows faster pick-and-place

Allows faster pick-and-placeEnables visual identification marking

TCM1-1+

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



 50Ω 1.5 to 500 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

Electrical Specifications

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio			1		Ohm
Frequency Range		1.5		500	MHz
	1.5 - 500		3		
Insertion Loss*	2.5 - 400		2		dB
	5 - 350		1		

 $^{^{\}star}$ Insertion Loss is referenced to mid-band loss, 0.9 dB typ.

Maximum Ratings

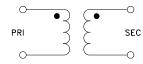
Parameter	Ratings	
Operating Temperature	-20°C to 85°C	
Storage Temperature	-55°C to 100°C	
RF Power	0.25W	
DC Current	30mA	

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

Pin Connections

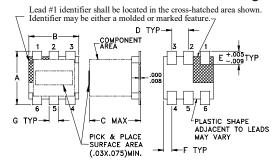
Function	Pin Number		
PRIMARY DOT	6		
PRIMARY	4		
SECONDARY DOT	1		
SECONDARY	3		
NOT USED	2,5		

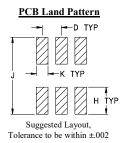
Config. C





Outline Drawing





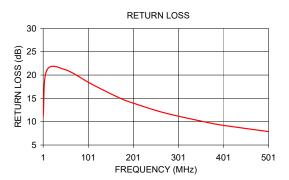
Outline Dimensions (inch)

_	_	_	_	_	
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)
1.00	1.93	11.00
8.80	0.88	20.96
50.00	0.99	21.15
110.00	1.15	17.98
170.00	1.29	15.11
200.00	1.40	14.01
270.00	1.59	11.90
369.00	1.95	9.77
402.00	2.04	9.20
501.00	2.38	7.88





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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