Surface Mount **RF Transformer** 50Ω 2 to 200 MHz

Features

- good return loss
- excellent amplitude unbalance, 0.1dB typ. and phase unbalance, 1 deg typ. in 1dB band width
- plastic base with leads
- aqueous washable

Applications

• impedance matching





Generic photo used for illustration purposes only

CASE STYLE: AT1521

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

	Available Tape and Reel at no extra cost
Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500
13"	1000, 2000

Electrical Specifications at 25°C

Parameter	Condition	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary / primary)			9		Ohm
Frequency Range		2		200	MHz
	2-200		3.0		
Insertion Loss*	3-100		2.0		dB
	5-40		1.0		

* Insertion Loss is referenced to mid-band loss, 0.7 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.

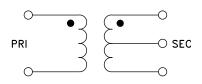
Product Marking



Pin Connections

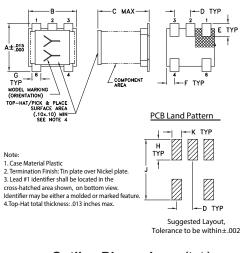
Function	Pin Number
PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	3
SECONDARY	1
SECONDARY CT	2

Config. A



TC9-1X+

Outline Drawing

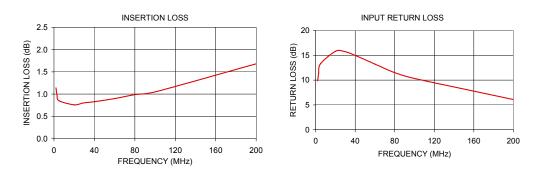


Outline Dimensions (inch)

A	B	C	D	E	F
.150	.150	.160	.050	.040	.025
3.81	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

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
2.00	1.14	9.85	
3.00	0.98	11.35	
5.00	0.85	13.33	
20.00	0.76	15.80	
29.00	0.80	15.77	
40.00	0.83	14.99	
60.00	0.90	13.22	
80.00	0.99	11.50	
100.00	1.05	10.34	
200.00	1.68	6.08	



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.

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



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