Surface Mount **RF Transformer**

50Ω

2 to 500 MHz

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	3
SECONDARY	1
SECONDARY CT	2

Outline Drawing AT224-1



Outline Dimensions (inch)

F	E	D	C	B	A
.025	.040	.050	.160	. 150	. 150
0.64	1.02	1.27	4.06	3.81	3.81
wt	L	K	J	H	G
grams	.007	.030	. 190	. 065	. 028
0.15	0.18	0.76	4.83	1.65	0.71

Config. A

O SEC

Features • wideband, 2 to 500 MHz

- good return loss
- plastic base with leads
- · aqueous washable

Applications

- push-pull amplifier
- · impedance matching



TC8-1+

Upgraded Version*

Generic photo used for illustration purposes only CASE STYLE: AT224-1

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

Available Tape and Reel at no extra cost Reel Size Devid , 50, 100, 200, 500 00, 2000

Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
8	2-500	2-500	5-400	10-100

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

Typical Performance Data FREQUENCY INSERTION INPUT (MHz) LOSS R. LOSS (dB) (dB) 2.00 3.00 10.65 1.20 1.03 12.20 5.00 0.90 14.01 7.50 0.84 15.09 10.00 0.82 15.64 55.00 0.86 15.88 100.00 0.90 15.29 400.00 1.15 9.68 450.00 1.34 9.15 500.00 8.67 1.51



Notes

C

С

PRI

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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

REV. C M151107 TC8-1+ IG/TD/CP/AM 200407 Page 1 of 1

Mini-Circuits

www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com