

Surface Mount RF Transformer

TC2-1T

50Ω 3 to 300 MHz



CASE STYLE: AT224
PRICE: Contact Sales Dept.

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

Features

- leadless surface mount
- good return loss
- excellent amplitude unbalance (0.5 dB typ) and phase unbalance (4 deg. typ) in 1 dB bandwidth
- aqueous washable

Applications

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

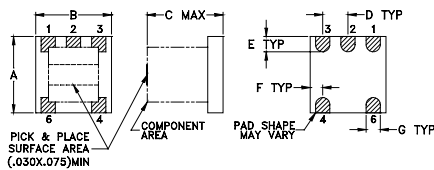
Transformer Electrical Specifications

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

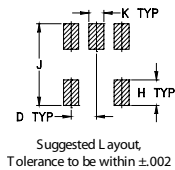
* Insertion Loss is referenced to mid-band loss, .4 dB typ.

NON-CATALOG

Outline Drawing AT224



PCB Land Pattern



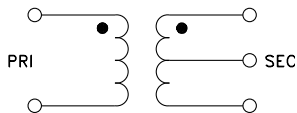
Outline Dimensions (inch/mm)

A	B	C	D	E	F
.150	.150	.150	.050	.030	.025
3.81	3.81	3.81	1.27	0.76	0.64
G	H	J	K	wt	
.028	.065	.190	.030	grams	
0.71	1.65	4.83	0.76	0.10	

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
3.00	0.38	21.63
5.00	0.33	20.24
10.00	0.34	19.32
30.00	0.34	19.26
50.00	0.37	19.41
70.00	0.40	19.34
100.00	0.44	19.00
150.00	0.52	18.11
200.00	0.60	17.06
300.00	0.80	15.00

Config. A



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Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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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