Surface Mount **RF Transformer** 5 to 205 MHz

50Ω

Features

- frequency, 5 to 205 MHz
- low loss, 0.4 dB/typ.
- · plastic base with leads
- aqueous washable

Applications

- impedance matching
- unbalance to balance transformation
- cable/CATV and broadband fiber networks
- Used with OneTree Microdevices OTM5180

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (Secondary/Primary)		1			
Frequency Range		5		205	MHz
Insertion Loss*	5-205		0.4	0.9	dB
Amplitude Unbalance	5-205		0.1	0.7	dB
Phase Unbalance	5-205		5	12	Degree
Return Loss	5-205		20		dB

*Insertion Loss is referenced to mid-band loss, 0.25 dB typ.

Maximum Ratings

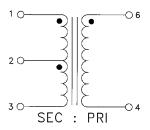
Parameter	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current*	300mA
tan Com A O	

150mA x 2 equally distributed

Pin Connections

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

Schematic A



REV. A M160088 TC1-72T-75-2+ ED-16033003/1 IG/CP/AM 210412

TC1-1-72T-72-2+



Generic photo used for illustration purposes only

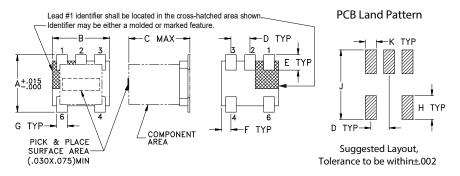
CASE STYLE: AT224-1A

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



TC1-1-72T-72-2+

Outline Drawing

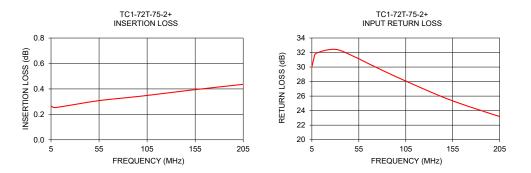


Outline Dimensions (inch)

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)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
5.00	0.27	30.00	0.02	0.01
7.00	0.26	31.08	0.01	0.05
10.00	0.25	31.92	0.01	0.13
30.00	0.28	32.43	0.00	0.59
50.00	0.30	31.44	0.01	1.00
70.00	0.32	30.17	0.02	1.40
100.00	0.34	28.36	0.05	1.99
150.00	0.39	25.58	0.11	3.03
200.00	0.43	23.39	0.20	4.06
205.00	0.44	23.20	0.22	4.17
210.00	0.44	23.01	0.23	4.28
250.00	0.48	21.51	0.32	5.17



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

