

top hat™
Surface Mount
RF Transformer

50Ω 10 to 700 MHz

Maximum Ratings

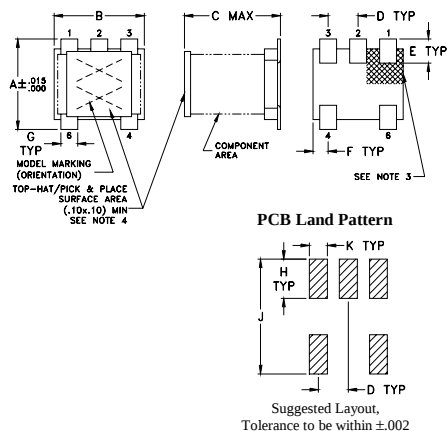
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	250mW
DC Current	30mA

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

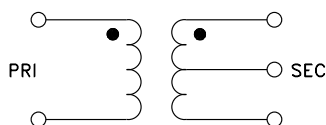
Outline Drawing AT1521



Outline Dimensions (inch/mm)

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	

Config. A



Features

- wideband, 10 to 700 MHz
- good return loss
- excellent amplitude unbalance, 0.5 dB typ. and phase unbalance, 1.3 deg typ. in 1 dB bandwidth
- plastic base with leads
- aqueous washable

Applications

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

TC2-72T+



CASE STYLE: AT1521
PRICE: \$2.19 QTY. (20)
\$1.19 QTY. (100)

+RoHS Compliant

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

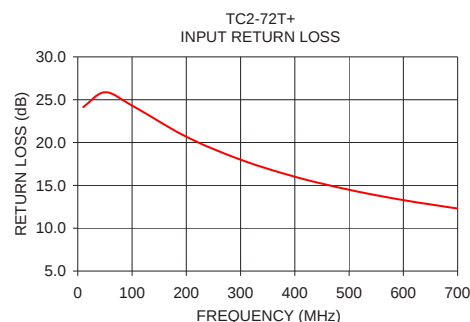
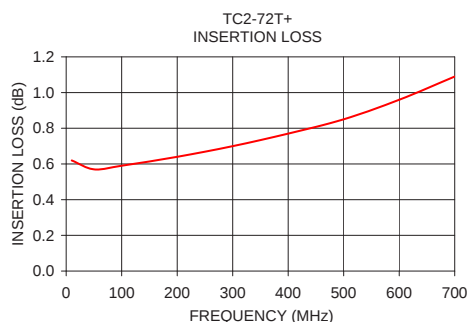
Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio (secondary/primary)			2		Ohm
Frequency Range		10	—	700	MHz
Insertion Loss*	10 - 400 400 - 700	— —	0.4 0.9	1.3 1.8	dB
Amplitude Unbalance	10 - 400 400 - 700	— —	0.5 1.3	0.8 2.0	dB
Phase Unbalance	10 - 400 400 - 700	— —	1.5 2.25	7.0 9.0	Degree

* Insertion Loss is referenced to mid-band loss, 0.5 dB.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
10.00	0.62	24.14	0.00	0.01
50.00	0.57	25.87	0.01	0.24
100.00	0.59	24.32	0.03	0.52
200.00	0.64	20.68	0.11	1.01
300.00	0.70	18.00	0.26	1.53
400.00	0.77	16.01	0.46	2.04
500.00	0.85	14.49	0.71	2.49
600.00	0.96	13.28	1.02	2.88
700.00	1.09	12.30	1.39	3.17



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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Page 1 of 1