

# Surface Mount RF Transformer

50Ω 10 to 700 MHz

## TC2-72T+



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

### 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

### 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

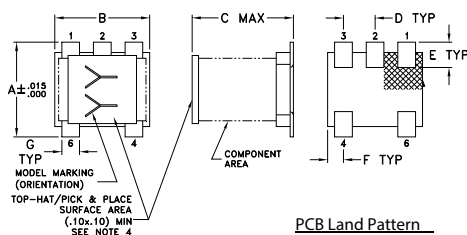
- impedance matching
- balanced to unbalanced transformation
- push-pull amplifiers

### Electrical Specifications at 25°C

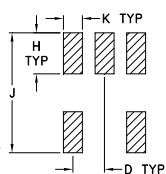
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio (secondary/primary)			2		Ohm
Frequency Range		10	—	700	MHz
Insertion Loss*	10 - 400 400 - 700	—	0.4 0.9	1.3 1.8	dB
Amplitude Unbalance	10 - 400 400 - 700	—	0.5 1.3	0.8 2.0	dB
Phase Unbalance	10 - 400 400 - 700	—	1.5 2.25	7.0 9.0	Degree

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

### Outline Drawing AT1521



#### PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

- Note:
1. Case Material Plastic
  2. Termination Finish: Tin plate over Nickel plate.
  3. Lead #1 identifier shall be located in the cross-hatched area shown, on bottom view. Identifier may be either a molded or marked feature.
  4. Top-Hat total thickness: .013 inches max.

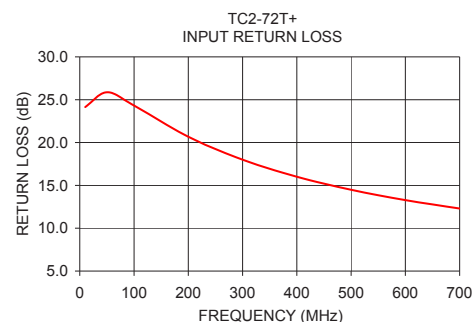
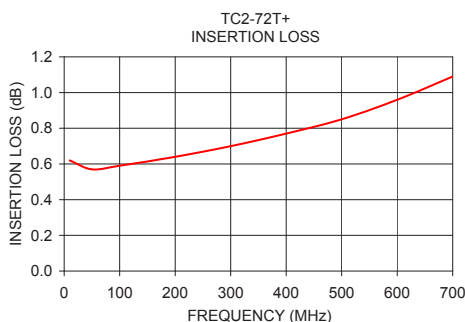
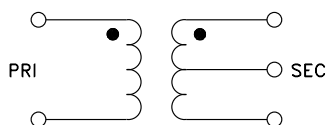
### Outline Dimensions (inch/mm)

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

### 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

### Config. A



### Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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