

# Surface Mount RF Transformer

50Ω 500 to 2500 MHz

TC4-25+



Generic photo used for illustration purposes only

CASE STYLE: AT224-1

+RoHS Compliant

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

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	0.25 W
DC Current	30 mA

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

## Features

- wideband, 500-2500 MHz
- balanced transmission line with secondary center tap
- good return loss
- plastic base with leads
- aqueous washable

## Applications

- PCS
- cellular

## Transformer Electrical Specifications

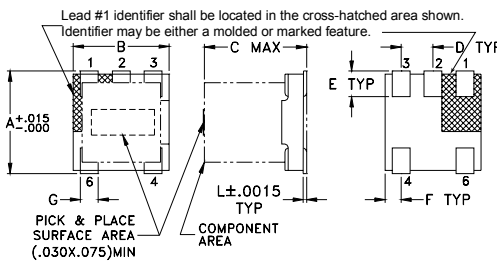
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
4	500-2500	500-2500	700-1500	750-1200

\* Insertion Loss is referenced to mid-band loss, 0.2 dB typ.

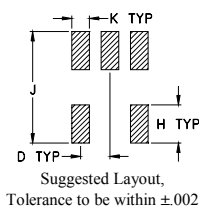
## Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
400.00	1.66	6.09
500.00	1.07	8.37
600.00	0.74	10.92
700.00	0.54	13.81
800.00	0.42	17.29
900.00	0.38	21.02
1000.00	0.37	22.67
1100.00	0.40	20.79
1200.00	0.43	18.40
1300.00	0.48	16.41
1400.00	0.53	14.94
1500.00	0.59	13.79
1600.00	0.64	12.90
1800.00	0.74	11.65
2000.00	0.84	10.75
2200.00	0.96	10.03
2400.00	1.08	9.35
2500.00	1.14	8.96
2800.00	1.38	7.82
3000.00	1.59	7.06

## Outline Drawing AT224-1



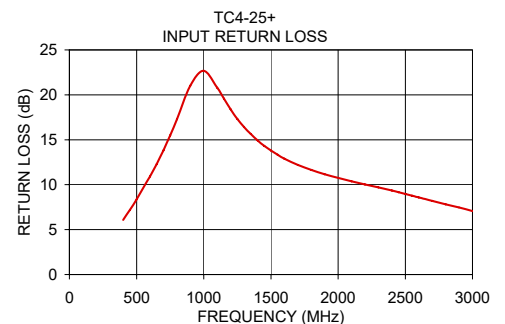
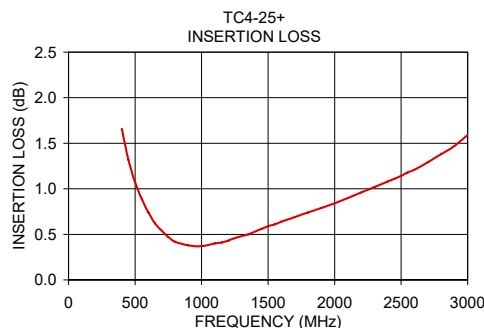
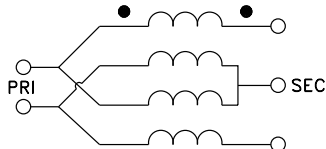
## PCB Land Pattern



## 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	L	wt
.028	.065	.190	.030	.007	grams
0.71	1.65	4.83	0.76	0.18	0.15

## Config. H



## 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.
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