

# Surface Mount RF Transformer

## TC4-14+

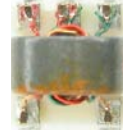
50Ω 200 to 1400 MHz

### Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

### Pin Connections

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	3
SECONDARY	1
SECONDARY CT	2



CASE STYLE: AT224-1  
PRICE: \$1.29 ea. QTY (100)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

### Features

- good return loss
- wideband, 200 to 1400 MHz
- plastic base with leads
- aqueous washable

### Applications

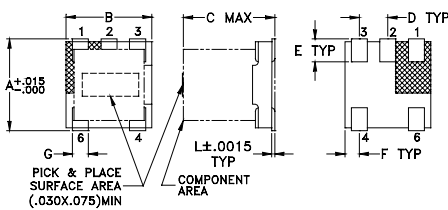
- push-pull amplifiers
- impedance matching

### Transformer Electrical Specifications

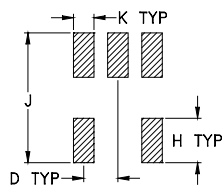
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
4	200-1400	200-1400	300-1300	800-1100

\* Insertion Loss is referenced to mid-band loss, 0.7 dB typ.

### Outline Drawing AT224-1



### PCB Land Pattern



Suggested Layout,  
Tolerance to be within ±.002

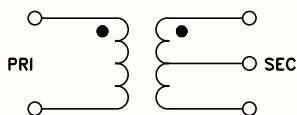
### Outline Dimensions (inch/mm)

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

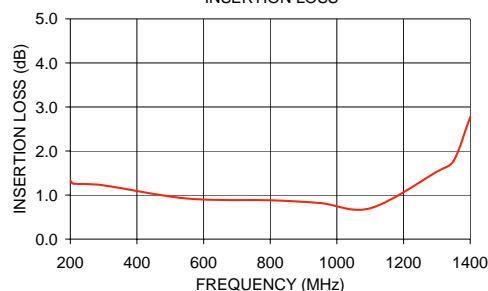
### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
200.00	1.33	6.74
210.00	1.26	6.88
300.00	1.22	8.07
550.00	0.92	9.54
800.00	0.88	10.68
950.00	0.82	13.05
1100.00	0.70	21.93
1300.00	1.53	10.04
1350.00	1.77	7.15
1400.00	2.77	5.05

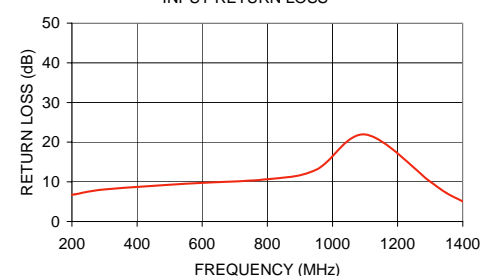
### Config. A



TC4-14+  
INSERTION LOSS



TC4-14+  
INPUT RETURN LOSS



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RF/IF MICROWAVE COMPONENTS

REV. B  
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TC4-14+  
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