

# Surface Mount RF Transformer

## TC8-1

50Ω

2 to 500 MHz



CASE STYLE: AT224  
PRICE: \$1.19 ea. QTY (100)

### 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

### Features

- wideband, 2 to 500 MHz
- good return loss
- leadless surface mount
- aqueous washable

### Applications

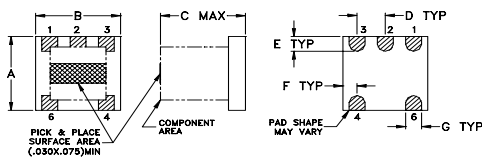
- push-pull amplifier
- impedance matching

### Transformer Electrical Specifications

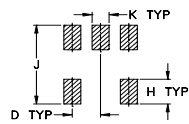
MODEL NO.	Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*		
			3 dB MHz	2 dB MHz	1 dB MHz
TC8-1	8	2-500	2-500	5-400	10-100

\* Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

### Outline Drawing AT224



### PCB Land Pattern



Suggested Layout,  
Tolerance to be within ±.002

### Outline Dimensions (inch/mm)

A	B	C	D	E	F
.150	.150	.150	.050	.030	.025
3.81	3.81	3.81	1.27	0.76	0.64
G	H	J	K	wt	
.028	.065	.190	.030	grams	
0.71	1.65	4.83	0.76	0.10	

### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
2.00	1.20	10.65
3.00	1.03	12.20
5.00	0.90	14.01
7.50	0.84	15.09
10.00	0.82	15.64
55.00	0.86	15.88
100.00	0.90	15.29
400.00	1.15	9.68
450.00	1.34	9.15
500.00	1.51	8.67

### Config. A

