

# Surface Mount RF Transformer

## TC16-1TG2+

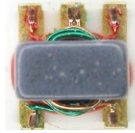
50Ω      20 to 300 MHz

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



CASE STYLE: AT224-3  
PRICE: \$1.79 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

- suitable for tin/lead and RoHS solder systems
- plastic base with leads
- aqueous washable

### Applications

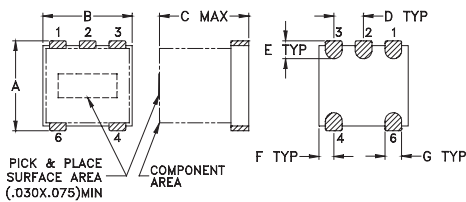
- catv

### Transformer Electrical Specifications

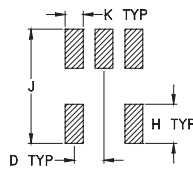
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
16	20-300	20-300	30-200	50-150	4	5	0.3	0.5

\* Insertion Loss is referenced to mid-band loss, 1 dB typ.

### Outline Drawing AT224-3



### PCB Land Pattern



Suggested Layout,  
Tolerance to be within ±.002

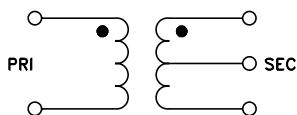
### Outline Dimensions (inch/mm)

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	

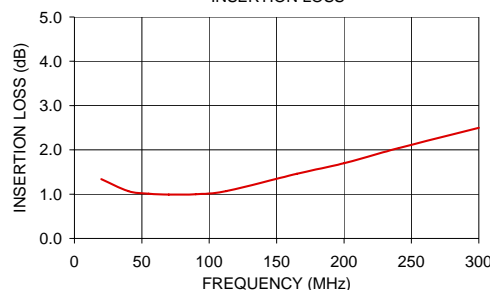
### Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
20.00	1.34	13.77
40.00	1.07	16.14
55.00	1.01	15.90
70.00	0.99	14.80
90.00	1.00	13.12
112.50	1.07	11.35
165.00	1.46	8.32
200.00	1.70	6.90
240.60	2.04	5.63
300.00	2.50	4.34

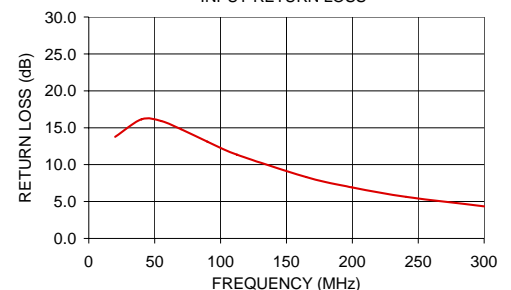
### Config. A



TC16-1TG2+  
INSERTION LOSS



TC16-1TG2+  
INPUT RETURN LOSS



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RF/IF MICROWAVE COMPONENTS

REV. A  
M111888  
TC16-1TG2+  
ED-7614/3  
WP/TD/CP/AM  
081013