

Surface Mount RF Transformer

TC4-1TG2+

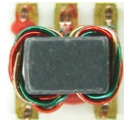
50Ω 0.5 to 300 MHz

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	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
SECONDARY CT	2



CASE STYLE: AT224-3
PRICE: \$1.39 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
- wideband, 0.5 to 300 MHz usable over 0.2 to 450 MHz
- good return loss
- impedance matching
- aqueous washable

Applications

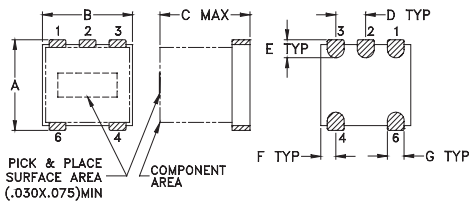
- CATV

Transformer Electrical Specifications

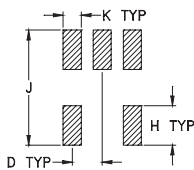
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
4	0.5-300	—	0.5-300	1.5-100

* Insertion Loss is referenced to mid-band loss, 0.3 dB typ.

Outline Drawing AT224-3



PCB Land Pattern



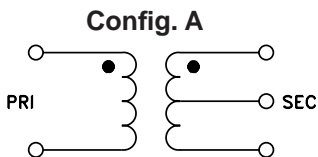
Suggested Layout,
Tolerance to be within ±.002

Outline Dimensions (inch/mm)

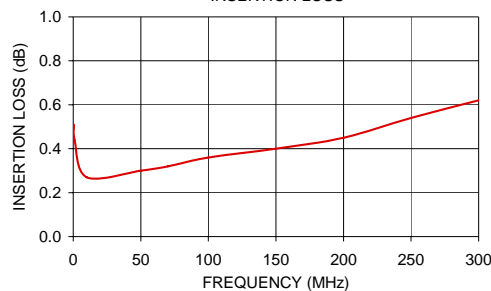
A	B	C	D	E	F
.150	.150	.150	.050	.030	.025
3.81	3.81	3.81	1.27	0.76	0.64
G	H	J	K	wt	
.028	.065	.190	.030	grams	
0.71	1.65	4.83	0.76	0.10	

Typical Performance Data

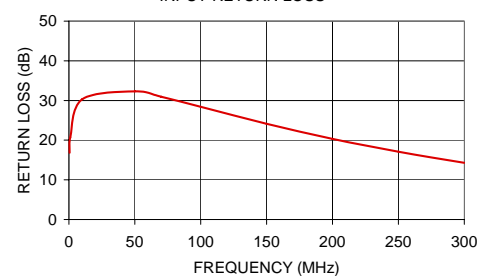
FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.50	0.51	16.81
1.00	0.44	20.73
10.00	0.27	30.31
50.00	0.30	32.32
70.00	0.32	30.95
100.00	0.36	28.39
150.00	0.40	24.12
200.00	0.45	20.32
250.00	0.54	17.09
300.00	0.62	14.29



TC4-1TG2+
INSERTION LOSS



TC4-1TG2+
INPUT RETURN LOSS



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RF/IF MICROWAVE COMPONENTS

REV. OR
M107839
TC4-1TG2+
ED-6398/2
IG/TD/CP
081013