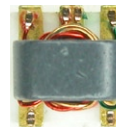


Surface Mount RF Transformer

TC1-1TG2+

50Ω 0.4 to 500 MHz



Maximum Ratings

Operating Temperature	-40°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

Features

- suitable for tin/lead and RoHS solder systems
- usable over 0.4-500 MHz
- excellent amplitude unbalance, 0.1 dB typ. and phase unbalance, 2 deg typ. in 1 dB bandwidth
- good return loss
- aqueous washable

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.

Applications

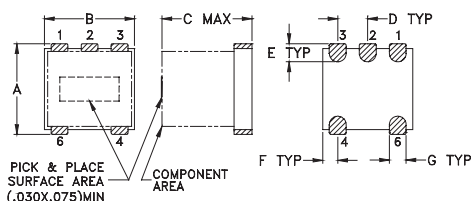
- VHF/UHF receivers/transmitters
- push-pull amplifiers

Transformer Electrical Specifications

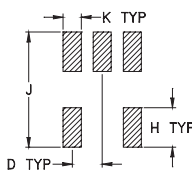
Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
1	0.4-500	0.4-500	0.5-300	1-100	2	5	0.1	0.6

*Insertion Loss is referenced to mid-band loss, 0.35 dB typ.

Outline Drawing AT224-3



PCB Land Pattern



Suggested Layout, Tolerance to be within ±.002

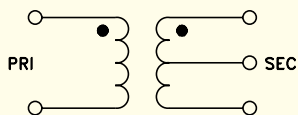
Outline Dimensions (inch/mm)

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

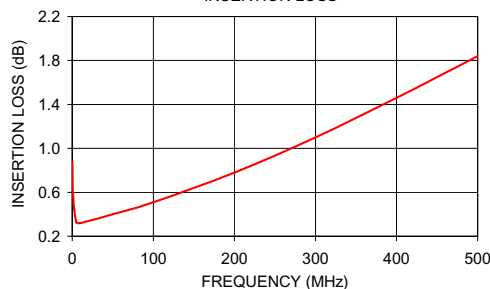
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.30	0.88	15.46	0.06	0.03
1.00	0.57	21.01	0.04	0.05
5.00	0.33	27.35	0.02	0.01
10.00	0.32	28.55	0.02	0.15
50.00	0.40	23.46	0.02	0.63
100.00	0.51	18.34	0.06	1.24
200.00	0.78	13.01	0.21	2.57
300.00	1.10	10.06	0.47	3.99
400.00	1.46	8.16	0.82	5.66
500.00	1.84	6.90	1.26	7.50

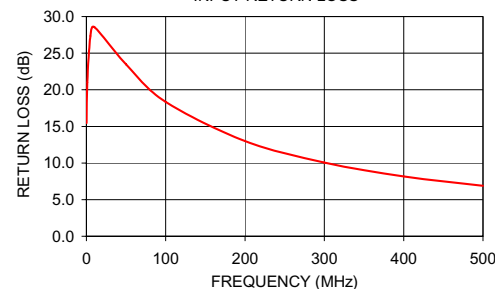
Config. A



TC1-1TG2+
INSERTION LOSS



TC1-1TG2+
INPUT RETURN LOSS



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RF/IF MICROWAVE COMPONENTS

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