

Surface Mount RF Transformer

TC2-1T+

50Ω 3 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: AT224-1
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
- excellent amplitude unbalance (0.5 dB typ) and phase unbalance (4 deg. typ) in 1 dB bandwidth
- plastic base with leads
- aqueous washable

Applications

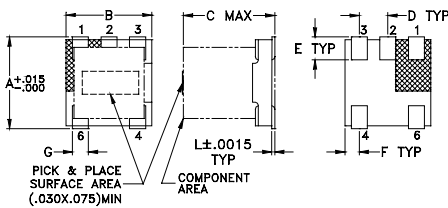
- impedance matching
- balanced to unbalanced transformation
- push-pull amplifier

Transformer Electrical Specifications

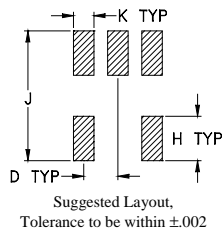
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
2	3-300	—	—	3-300

* Insertion Loss is referenced to mid-band loss, .4 dB typ.

Outline Drawing AT224-1



PCB Land Pattern



Outline Dimensions (inch/mm)

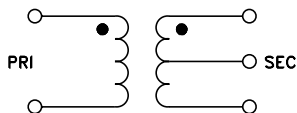
A	B	C	D	E	F
.150	.150	.160	.050	.040	.025
3.81	3.81	4.06	1.27	1.02	0.64

G	H	J	K	L	wt
.028	.065	.190	.030	.007	grams
0.71	1.65	4.83	0.76	0.18	0.15

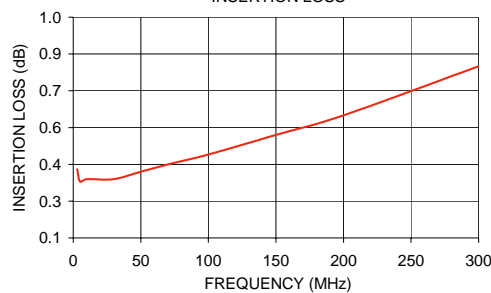
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
3.00	0.38	21.63
5.00	0.33	20.24
10.00	0.34	19.32
30.00	0.34	19.26
50.00	0.37	19.41
70.00	0.40	19.34
100.00	0.44	19.00
150.00	0.52	18.11
200.00	0.60	17.06
300.00	0.80	15.00

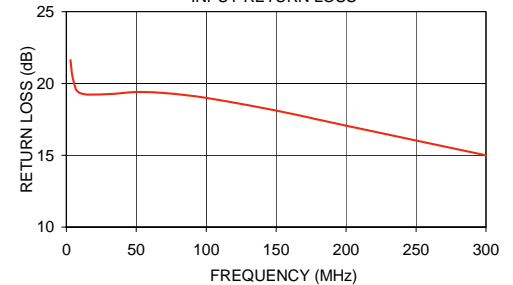
Config. A



TC2-1T+
INSERTION LOSS



TC2-1T+
INPUT RETURN LOSS



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RF/IF MICROWAVE COMPONENTS

REV. D
M111888
TC2-1T+
ED-6119
IG/TD/CP/AM
080206