

Surface Mount RF Transformer

TC3-1T+

50Ω 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: AT224-1
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

- excellent amplitude unbalance (0.3 dB typ) and phase unbalance (5 deg. typ) in 1 dB bandwidth
- plastic base with leads
- good return loss
- aqueous washable

Applications

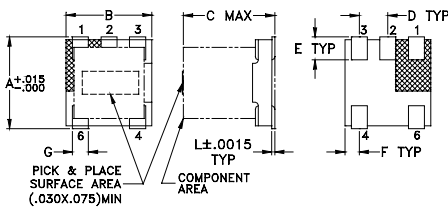
- impedance matching
- balanced antennas

Transformer Electrical Specifications

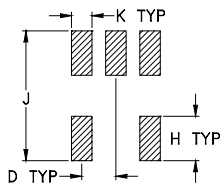
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
3	5-300	—	—	5-300

* Insertion Loss is referenced to mid-band loss, 0.4 dB typ.

Outline Drawing AT224-1



PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.002

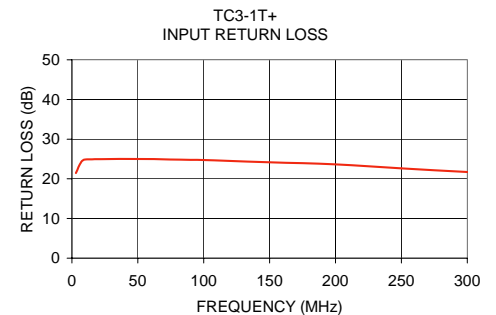
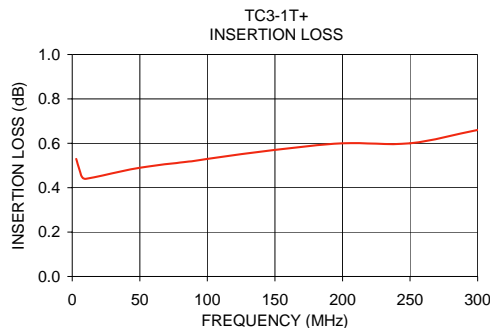
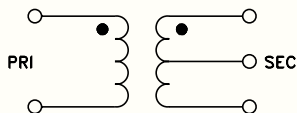
Outline Dimensions (inch/mm)

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	0.53	21.45
7.00	0.45	24.23
10.00	0.44	24.89
50.00	0.49	24.99
90.00	0.52	24.79
100.00	0.53	24.74
150.00	0.57	24.15
200.00	0.60	23.65
250.00	0.60	22.64
300.00	0.66	21.73

Config. A



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RF/IF MICROWAVE COMPONENTS

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