RF Transformer

TC1-33-75G2+

75Ω

5 to 3000 MHz

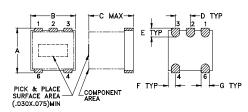
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
Permanent damage may occur if any of the	hese limits are exceeded.

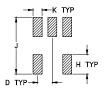
Pin Connections

PRIMARY DOT	6
PRIMARY	4
SECONDARY DOT	1
SECONDARY	3
NOT USED	2

Outline Drawing AT224-3





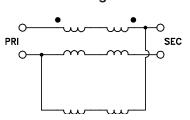


Suggested Layout. Tolerance to be within ±002

Outline Dimensions (inch)

Α	В	С	D	Е	F
.150	.150	.150	.050	.030	.025
3.81	3.81	3.81	1.27	0.76	0.64
G	Н	J	K		wt
.028	.065	.190	.030		grams

Config. K



Features

- suitable for tin/lead and RoHS solder systems
- balanced transmission line
- excellent amplitude unbalance, 0.3 dB typ. and
- aqueous washable

Applications

- balanced to unbalanced transformation
- · push-pull amplifiers
- PCS/DCS
- cable TV
- cellular

• wideband, 5 to 3000 MHz

• good return loss, 20 dB typ. at 1 dB band

phase unbalance, 3 deg typ. in 1 dB bandwidth

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

PRICE: \$2.89 ea. QTY (20)

\$1.89 ea. QTY (100)

CASE STYLE: AT224-3

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

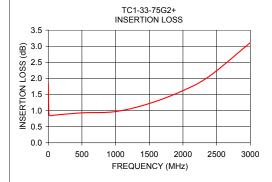
Transformer Electrical Specifications (T_{AMB}=25°C)

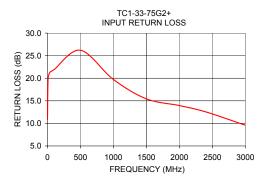
Ω RATIO	FREQUENCY (MHz)	INSERTION LOSS* 3 dB 2 dB 1 dB MHz MHz MHz		UNBAI (De	ASE LANCE eg.) /p. 2 dB bandwidth	AMPLITUDE UNBALANCE (dB) Typ. 1 dB 2 dB bandwidth bandwidth		
1	5-3000	2000-3000	1200-2000	5-1200	3	4	0.3	1.0

*Insertion Loss is referenced to mid-band loss, 1.0 dB tvp.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
1.00	1.85	10.86	0.38	2.91
10.00	0.88	20.01	0.04	0.84
40.00	0.84	21.37	0.00	0.58
100.00	0.86	21.90	0.01	0.92
500.00	0.93	26.20	0.10	3.63
1000.00	0.97	19.72	0.18	4.76
1500.00	1.22	15.43	0.77	3.62
2000.00	1.62	13.94	1.40	0.56
2400.00	2.08	12.54	1.84	4.10
3000.00	3.11	9.59	2.06	12.70







For detailed performance specs