Surface Mount

RF Transformer

ADT16-1T+ ADT16-1T

1.5 to 160 MHz 50Ω

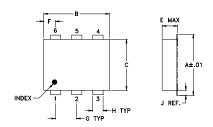
Maximum Ratings

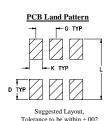
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
Permanent damage may occur if any o	of these limits are exceeded.

Pin Connections

PRIMARY DOT	3
PRIMARY	1
SECONDARY DOT	4
SECONDARY	6
SECONDARY CT	5
NOT USED	2

Outline Drawing

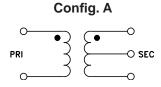




Outline Dimensions (inch)

	•					
G	F	Е	D	С	В	Α
.100	.055	.112	.100	.220	.310	.272
2.54	1.40	2.84	2.54	5.59	7.87	6.91
wt			L	K	J	Н
grams			.300	.065	.026	.030
0.20			7.62	1.65	0.66	0.76

Demo Board MCL P/N: TB-430



Features

- excellent return loss, 16 dB typ. in 1 dB bandwidth
- excellent amplitude unbalance, 0.1 dB typ.
- excellent phase unbalance, 1 deg. typ. in 1 dB bandwidth
- · aqueous washable
- protected under US patent 6,133,525

Applications

- impedance matching
- baluns

PRICE: \$4.25 ea. QTY (10-49)

CASE STYLE: CD542

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

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

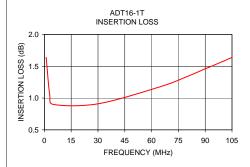
Transformer Electrical Specifications

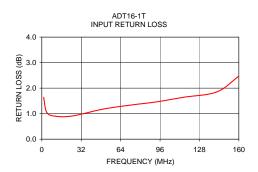
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		PHASE UNBALANCE (Deg.) Typ.		LANCE eg.)	AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
16	1.5-160	1.5-160	3-105	5-65	1	1	0.1	0.1

^{*} Insertion Loss is referenced to mid-band loss, 0.9 dB tvp.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
1.00	1.64	10.88	0.01	0.06
3.00	1.05	15.81	0.01	0.03
5.00	0.90	18.12	0.01	0.02
30.00	0.91	16.39	0.01	0.03
65.00	1.18	11.10	0.00	0.04
80.00	1.34	9.60	0.00	0.04
90.00	1.46	8.75	0.00	0.11
105.00	1.64	7.66	0.01	0.03
120.00	1.85	6.75	0.01	0.02
160.00	2.47	4.93	0.04	0.07





For detailed performance specs

