# Surface Mount

# **RF Transformer**

0.1 to 70 MHz

# **ADT16-6T+ ADT16-6T**

CASE STYLE: CD637 PRICE: \$5.95 ea. QTY (10-49)

+ 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.

• excellent return loss, 16 dB typ. in 1 dB bandwidth

• excellent amplitude unbalance, 0.05 dB typ.

• excellent phase unbalance, 1 deg. typ.

• protected under US patent 6,133,525

### **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

• impedance matching

in 1 dB bandwidth

• aqueous washable

• baluns

## **Applications**

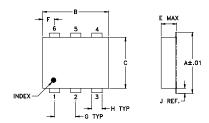
**Features** 

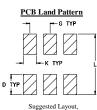
# **Transformer Electrical Specifications**

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*  3 dB 2 dB 1 dB MHz MHz MHz		UNBAI (De	ASE LANCE eg.) /p. 2 dB bandwidth	UNBAI (d	ITUDE LANCE B) rp. 2 dB bandwidth	
16	0.1-70	0.1-70	0.18-45	0.30-33	1	2	0.05	0.1

Insertion Loss is referenced to mid-band loss, 0.3 dB tvp.

# **Outline Drawing**





Tolerance to be within +.002

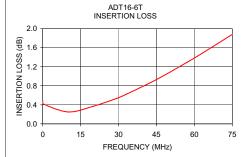
# Outline Dimensions (inch )

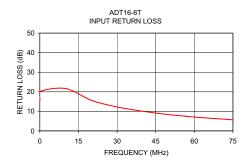
G	F	Е	D	С	В	Α
.100	.055	.206	.100	.220	.310	.272
2.54	1.40	5.23	2.54	5.59	7.87	6.91
wt			L	к	J	Н
grams			.300	.065	.026	.030
0.40			7.62	1.65	0.66	0.76

Demo Board MCL P/N: TB-430

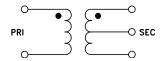
# **Typical Performance Data**

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.10	0.48	15.80	0.01	0.00
0.18	0.42	20.18	0.01	0.05
10.11	0.25	21.64	0.01	0.41
20.04	0.37	15.61	0.01	0.08
29.00	0.53	12.52	0.04	1.07
33.00	0.62	11.49	0.06	1.24
45.00	0.93	9.10	0.12	1.71
57.00	1.29	7.41	0.21	2.19
63.00	1.48	6.74	0.27	2.45
75.00	1.88	5.66	0.40	3.05





# Config. A



For detailed performance specs