Surface Mount

RF Transformer

50Ω 0.2 to 210 MHz

ADTT3-2+
ADTT3-2

CASE STYLE: CD636
PRICE: $4.50 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.

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	3
PRIMARY	1
PRIMARY CT	2
SECONDARY DOT	4
SECONDARY	6
SECONDARY CT	5

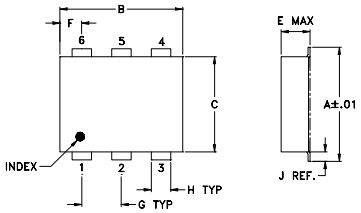
Features

- excellent return loss, 20 dB in 1 dB bandwidth
- excellent amplitude unbalance, 0.2 dB typ. in 1 dB bandwidth
- aqueous washable
- protected under U.S. Patent 6,133,525

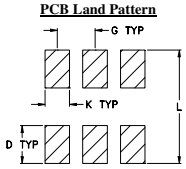
Applications

- impedance matching
- balanced amplifier

Outline Drawing



PCB Land Pattern



Suggested Layout,
Tolerance to be within ±.002

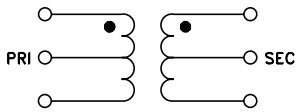
Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
.272	.310	.220	.100	.162	.055	.100
6.91	7.87	5.59	2.54	4.11	1.40	2.54

H	J	K	L	wt
.030	.026	.065	.300	grams
0.76	0.66	1.65	7.62	0.25

Demo Board MCL P/N: TB-211

Config. B



Transformer Electrical Specifications

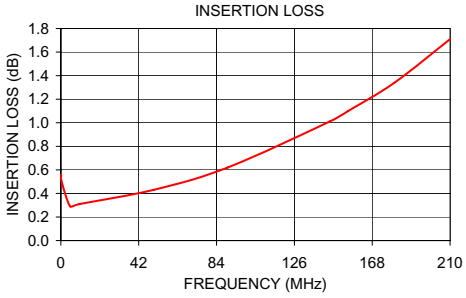
Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*			PHASE UNBALANCE (Deg.) Typ.		AMPLITUDE UNBALANCE (dB) Typ.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
3	0.2-210	0.2-210	0.3-150	0.5-90	1	4	0.2	0.2

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

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
0.19	0.56	15.07	0.02	0.05
0.27	0.51	17.97	0.01	0.04
5.00	0.29	24.23	0.01	0.02
10.00	0.31	23.55	0.00	0.22
50.00	0.43	18.00	0.03	0.26
90.00	0.62	13.82	0.05	0.80
145.00	1.01	10.13	0.12	1.53
155.00	1.10	9.61	0.13	1.96
180.00	1.34	8.44	0.21	2.51
210.00	1.71	7.24	0.31	3.54

ADTT3-2
INSERTION LOSS



ADTT3-2
INPUT RETURN LOSS