RF Transformer

ADT1.5-1+

50Ω 0.5 to 650 MHz



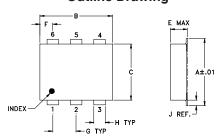
Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	1W
DC Current	30mA
Permanent damage may occur if any	of these limits are exceeded

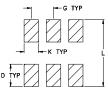
Pin Connections

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

Outline Drawing



PCB Land Pattern



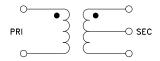
Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

G	F	E	D	C	B	A
.100	.055	.112	.100	. 220	. 310	. 272
2.54	1.40	2.84	2.54	5.59	7.87	6.91
wt grams			.300	.065	J .026	.030

Demo Board MCL P/N: TB-430

Config. A



Features

- excellent return loss, 17 dB typ. in 1 dB bandwidth
- aqueous washable
- protected under US patent 6,133,525

CASE STYLE: CD542

+RoHS Compliant

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

Reel Size 20, 50, 100, 200 500, 1000

Applications

- impedance matching
- balanced amplifier

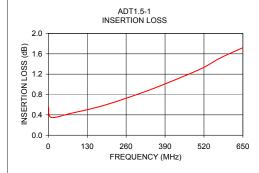
Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		
		3 dB MHz	2 dB MHz	1 dB MHz
1.5	0.5-650	0.5-650	0.8-500	1-300

^{*} Insertion Loss is referenced to mid-band loss, 0.3 dB tvp.

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.50	0.56	15.26
0.90	0.54	18.76
10.00	0.35	25.10
76.00	0.43	22.55
188.00	0.59	16.96
320.00	0.85	13.13
420.00	1.08	11.31
515.00	1.32	10.12
575.00	1.52	9.56
650.00	1.72	9.09





- Notes
 A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp