RF Transformer

ADT4-1WT+

2 to 775 MHz 50Ω

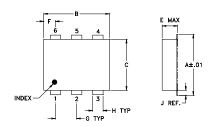
Maximum Ratings

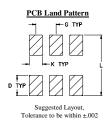
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA
Permanent damage may occur if any of	these limits are exceeded.

Pin Connections

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

Outline Drawing





Outline Dimensions (inch)

Α	В	С	D	E	F	G
.272	.310	.220	.100	.112	.055	.100
6.91	7.87	5.59	2.54	2.84	1.40	2.54
Н	J	K	L			wt
.030	J .026	.065	.300			wt grams

Demo Board MCL P/N: TB-430

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Config. A

Features

- excellent return loss, 20 dB typ. in dB bandwidth
- excellent amplitude unbalance, 0.1 dB typ.
- and phase unbalance, 1 deg. typ. in 1 dB bandwidth

• aqueous washable

• protected under US patent 6,133,525

Applications

- impedance matching

Generic photo used for illustration purposes only CASE STYLE: CD542

+RoHS Compliant

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*		UNBA (De	ASE LANCE eg.) /p.	UNBAI (d	ITUDE LANCE B) /p.	
		3 dB MHz	2 dB MHz	1 dB MHz	1 dB bandwidth	2 dB bandwidth	1 dB bandwidth	2 dB bandwidth
4	2-775	2-775	3-600	6-250	1	3	0.1	0.3

^{*} Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

Typical Performance Data

INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)	
1.53	13.65	0.02	0.03	
1.02	17.61	0.00	0.03	
0.75	21.91	0.00	0.00	
0.80	22.05	0.01	0.26	
0.98	19.93	0.03	0.89	
1.10	18.41	0.03	1.48	
1.44	10.74	0.18	6.98	
1.81	8.91	0.23	10.48	
2.12	7.73	0.27	14.36	
2.51	7.38	0.28	14.98	
	1.53 1.02 0.75 0.80 0.98 1.10 1.44 1.81 2.12	LOSS (dB) 1.53 13.65 1.02 17.61 0.75 21.91 0.80 22.05 0.98 19.93 1.10 18.41 1.44 10.74 1.81 8.91 2.12 7.73	LOSS (dB) 1.53 13.65 0.02 1.02 17.61 0.00 0.75 21.91 0.00 0.80 22.05 0.01 0.98 19.93 0.03 1.10 18.41 0.03 1.44 10.74 0.18 1.81 8.91 0.23 2.12 7.73 0.27	





- 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