RF Transformer

0.2 to 120 MHz 50O

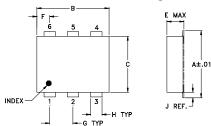
Maximum Ratings

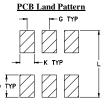
Operating Temperature	-20°C to 85°C					
Storage Temperature	-55°C to 100°C					
RF Power	0.25W					
DC Current	30mA					
Permanent damage may occur if any of these limits are exceed						

Pin Connections

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

Outline Drawing





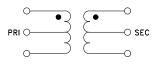
Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

G	F	E	D	C	B	A
.100	.055	.162	.100	. 220	. 310	. 272
2.54	1.40	4.11	2.54	5.59	7.87	6.91
wt grams 0.25			.300 7.62	K . 065 1.65	J . 026	.030 0.76

Demo Board MCL P/N: TB-430

Config. B



Features

- excellent return loss, 25 dB typ., in 1dB bandwidth
- excellent amplitude unbalance, 0.05 dB typ.
- aqueous washable
- protected under US patent 6,133,525

ADTT4-1+



Generic photo used for illustration purposes only

CASE STYLE: CD636

+RoHS Compliant

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

Available Tape and Reel at no extra cost Devices/Reel 20, 50, 100, 200 500,1000

Applications

- impedance matching
- balanced amplifier

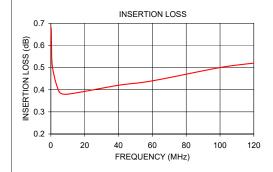
Transformer Electrical Specifications

Ω RATIO (Secondary/Primary)	FREQUENCY (MHz)	INSERTION LOSS*		UNBAI (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	0.2-120	_	_	0.2-120	3	_	0.05	_

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

Typical Performance Data

FREQUENCY (MHz)			AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)	
0.20	0.68	17.71	0.00	0.04	
0.30	0.64	20.04	0.00	0.03	
0.40	0.61	21.39	0.00	0.00	
1.00	0.50	25.00	0.00	0.04	
5.00	0.39	30.48	0.00	0.22	
10.00	0.38	31.87	0.01	0.45	
40.00	0.42	31.44	0.02	1.79	
60.00	0.44	29.35	0.04	2.74	
100.00	0.50	26.11	0.10	4.73	
120.00	0.52	24.51	0.13	5.85	





- 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