# Surface Mount **RF** Transformer

### 2 to 775 MHz **50**Ω

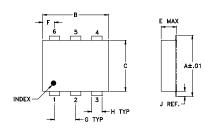
# **Maximum Ratings**

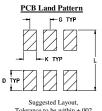
Operating Temperature	-20°C to 85°C					
Storage Temperature	-55°C to 100°C					
RF Power	0.25W					
DC Current	30mA					
Permanent damage may occur if any of these limits are exceeded.						

### Pin Connections

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

## **Outline Drawing**



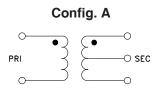


Tolerance to be within + 002

### Outline Dimensions (inch ) С D F R F G Δ

. <b>100</b>	. <b>055</b>	. <b>112</b>	. <b>100</b>	. <b>220</b>	<b>.310</b>	<b>.272</b>
2.54	1.40	2.84	2.54	5.59	7.87	6.91
wt grams 0.20			L .300 7.62	К .065 1.65	J .026 0.66	

Demo Board MCL P/N: TB-430



### **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
- baluns





CASE STYLE: CD542 PRICE: \$2.95 ea. QTY (20)

+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						
Reel Size	Devices/Reel					
7"	20, 50, 100, 200, 500					
13"	500,1000					

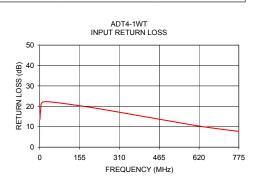
### **Transformer Electrical Specifications**

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
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 tvp.

### **Typical Performance Data** FREQUENCY INSERTION INPUT AMPLITUDE PHASE (MHz) LOSS R. LOSS UNBALANCE UNBALANCE (dB) (dB) (dB) (Deg.) 1.00 1.53 13 65 0.02 0.03 3.00 1.02 17.61 0.00 0.03 10.00 0.75 21.91 0.00 0.00 50.00 175.00 0.01 0.03 0.26 0.89 0.80 22.05 0.98 19.93 250.00 1.10 18.41 0.03 1.48 600.00 1.44 10.74 0.18 6.98 700.00 1.81 8.91 0.23 10 48 775.00 2.12 7.73 0.27 14.36 800.00 2.51 7.38 0.28 14.98







For detailed performance specs

IF/RF MICROWAVE COMPONENTS Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established tests performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's and terms and conditions (collective), "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 performance data www.minicircuits.com/MCLStore/terms.jsp. REV. C M112648 ADT4-1WT ED-6920/1 HY/TD/CP/AM 071101