Surface Mount **RF Transformer**

2 to 775 MHz 50Ω

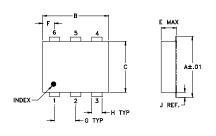
Maximum Ratings

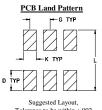
Operating Temperature	-20°C to 85°C				
Storage Temperature	-55°C to 100°C				
RF Power	0.25W				
DC Current	30mA				
Permanent damage may occur if any of these limits are exceeded.					

Pin Connections

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

Outline Drawing





Tolerance to be within + 002

Outline Dimensions (inch) в c П F F G

. 100	. 055	. 112	. 100	.220	.310	. 272
2.54	1.40	2.84	2.54	5.59	7.87	6.91
wt grams 0.20			L .300 7.62	K .065 1.65	J .026 0.66	H .030 0.76

Demo Board MCL P/N: TB-430

Config. A -O SEC PRI \cap \cap

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



ADT4-1WT+

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

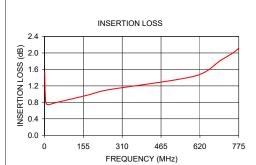
Available Tape and Reel at no extra cost								
Reel Size	Devices/Reel							
7"	20, 50, 100, 200							
13"	500,1000							

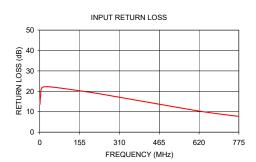
Transformer Electrical Specifications

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 0.26 0.89 0.80 22.05 0.01 0.98 19.93 0.03 250.00 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





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 Min-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Min-Circuit's transmittions (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 Min-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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