# **RF Transformer**

## **ADT1.5-17+ ADT1.5-17**

CASE STYLE: CD542

#### 0.5 to 1700 MHz 50Ω

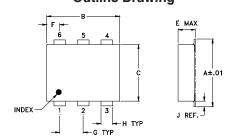
#### **Maximum Ratings**

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 o	of these limits are exceeded

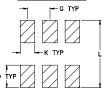
#### **Pin Connections**

1
3
6
3
2,4,5

## **Outline Drawing**



### PCB Land Pattern

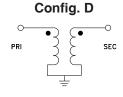


Suggested Layout Tolerance to be within ±.002

#### Outline Dimensions (inch)

Α	В	С	D	Е	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
H .030	J .026	K .065	.300			wt grams

Demo Board MCL P/N: TB-40



#### **Features**

- wideband, 0.5 to 1700 MHz
- autotransformer
- excellent return loss, 20 dB typ. in 1 dB bandwidth
- aqueous washable
- protected under US patent 6,133,525

### **Applications**

- impedance matching
- GPS
- satellite distributor

#### +RoHS Compliant

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



### **Transformer Electrical Specifications**

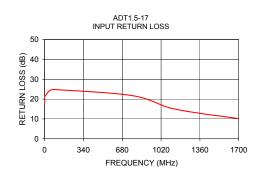
Ω <b>RATIO</b> (Secondary/Primary)	FREQUENCY (MHz)	3 dB MHz	INSERTION LOSS*	1 dB MHz
1.5	0.5-1700	0.5-1700	1-1500	2-1100

<sup>\*</sup> Insertion Loss is referenced to mid-band loss, 0.4 dB typ.

#### **Typical Performance Data**

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)
0.50	0.65	17.56
1.00	0.55	19.45
2.00	0.43	21.26
51.00	0.35	24.57
100.00	0.38	24.78
766.66	0.58	21.77
1100.00	0.79	15.52
1400.00	1.24	12.50
1550.00	1.29	11.36
1700.00	1.47	10.16





- 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