# RF Choke

### 50 to 10000 MHz

### **Maximum Ratings**

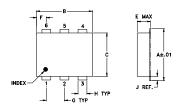
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
DC Current	250 mA

Permanent damage may occur if any of these limits are exceeded.

### Pin Connections

RF-IN & DC	6
DC	3
NOT USED	1,2,4,5

### **Outline Drawing**

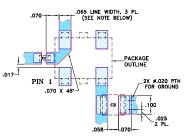




### Outline Dimensions (inch)

	F .055 1.40	E .112 2.84	.100 2.54	C .220 5.59	<b>B</b> . <b>310</b> 7.87	<b>A</b> . <b>272</b> 6.91
wt grams			.300	.065	J .026	.030

### Demo Board MCL P/N: TB-113 Suggested PCB Layout (PL-026)



CAPASITORS: C1: 6800 pF, 0603 SIZE; C2: 1.0 uF, 1311 SIZE.

NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4550B WITH DIELECTRIC

THICKNESS. 303 "± .002"; COPPER: 1/2 07. EACH SIDE.

FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

## ADCH-80A+



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



### **Applications**

**Features** 

biasing amplifiers

• aqueous washable

- biasing of laser diodes
- biasing of active antennas

• low parasitic capacitance 0.1 pf typ.

protected by US Patent, 6,133,525

• effective parallel resistance, Rch 800 ohm typ.

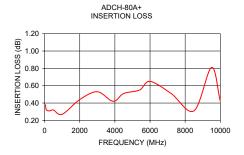
### **Electrical Specifications**

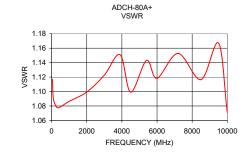
<u>.</u>							
FREQ. RANGE (MHz)	INSERTION LOSS* (dB)	VSWR* (:1)	DC CURRENT (mA)	INDUCTANCE (µH) Typ.		NCE	
	Typ. Max.	Typ. Max.	Max.	@ 0mA	@ 50mA	@ 100mA	
	Typ. Wax.	Typ. Iwax.	IVIAA.	UIIIA	JUIIIA	IUUIIIA	
50-8000	0.3 1.0	1.1 1.35	100	7.0	1.8	1.0	
50-10000	03 20	11 16	100	7.0	1.8	1.0	

\*tested with circuit shown below, Zo=50 ohms

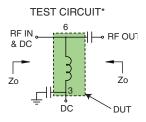
### **Typical Performance Data**

F	REQUENCY (MHz)	INSERTION LOSS (dB)	VSWR (:1)	
	50.00	0.38	1.12	
	100.00	0.32	1.09	
	300.00	0.31	1.08	
	500.00	0.32	1.08	
	1000.00	0.27	1.09	
	2000.40	0.44	1.10	
	3000.90	0.53	1.12	
	3900.00	0.42	1.15	
	4500.00	0.51	1.10	
	5400.00	0.55	1.14	
	6000.00	0.65	1.12	
	7199.80	0.51	1.15	
	8500.00	0.31	1.12	
	9500.20	0.81	1.17	
	10000.30	0.42	1.07	





### **Electrical Schematic**



- 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 Ferms"); Puchasers 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