

Very Wideband RF Choke

50Ω 50 to 10000 MHz

Maximum Ratings

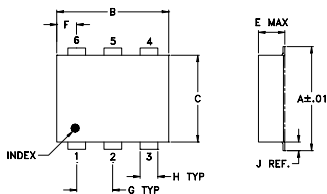
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
DC Current	250 mA

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

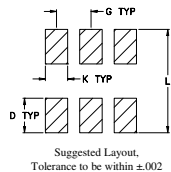
Pin Connections

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

Outline Drawing



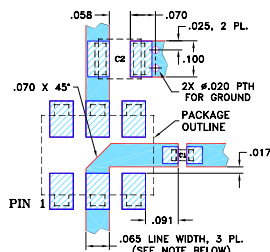
PCB Land Pattern



Outline Dimensions (inch/mm)

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

Demo Board MCL P/N: TB-52 Suggested PCB Layout (PL-210)



CAPACITORS: C1: 6800 pF, 0603 SIZE; C2: 1.0 uF, 1311 SIZE.
NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. 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

Features

- low parasitic capacitance 0.1 pf typ.
- effective parallel resistance, Rch 800 ohm typ.
- aqueous washable
- protected by US Patent, 6,133,525

Applications

- biasing amplifiers
- biasing of laser diodes
- biasing of active antennas

Electrical Specifications

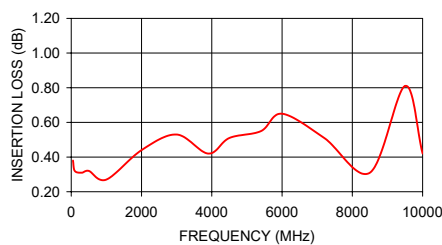
FREQ. RANGE (MHz)	INSERTION LOSS* (dB)		VSWR* (:1)		DC CURRENT (mA)	INDUCTANCE (μH) Typ.		
	Typ.	Max.	Typ.	Max.	Max.	@ 0mA	@ 50mA	@ 100mA
50-8000	0.3	1.0	1.1	1.35	100	7.0	1.8	1.0
50-10000	0.3	2.0	1.1	1.6	100	7.0	1.8	1.0

*tested with circuit shown below, Zo=50 ohms

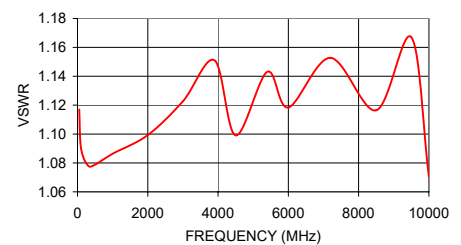
Typical Performance Data

FREQUENCY (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

ADCH-80+
INSERTION LOSS

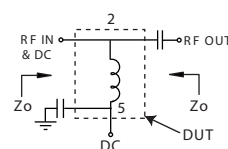


ADCH-80+
VSWR



Electrical Schematic

TEST CIRCUIT*



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
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ADCH-80+



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



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