

Very Wideband RF Choke

50Ω 50 to 10000 MHz

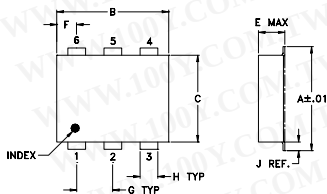
Maximum Ratings

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.	

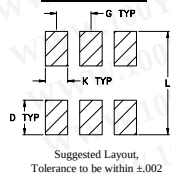
Pin Connections

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

Outline Drawing



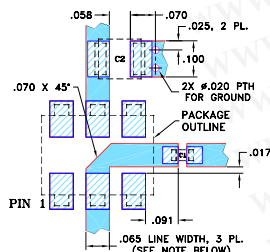
PCB Land Pattern



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

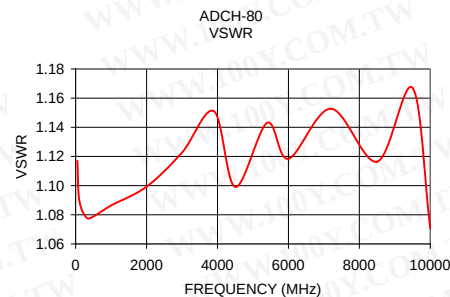
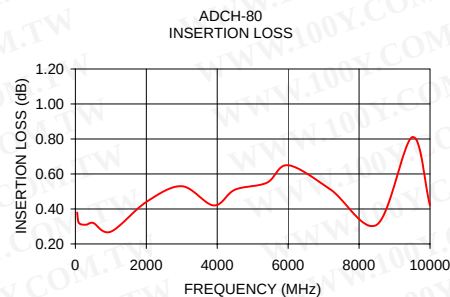
Electrical Specifications

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

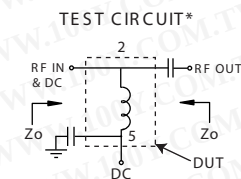
*tested with circuit shown below, Zo=50 ohms

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



electrical schematic



勝特力材料 86-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
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REV. C
M98898
ED-7562/2
ADCH-80
DJTD/CP/AM
070530

ADCH-80+
ADCH-80



CASE STYLE: CD542
QTY. (10-49)

+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

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