



**THE DATASHEET OF
ADCH-80A+**



Very Wideband RF Choke

50Ω 50 to 10000 MHz

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

Available Tape and Reel at no extra cost	
Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200, 500
13"	1000

Maximum Ratings

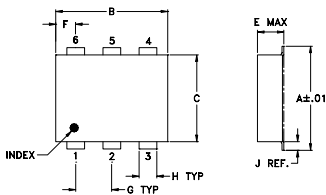
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
DC Current	250 mA

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

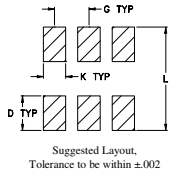
Pin Connections

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

Outline Drawing



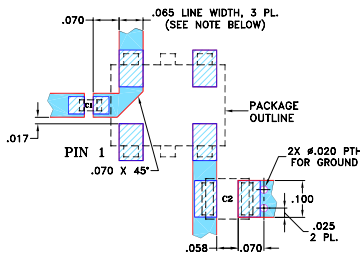
PCB Land Pattern



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-113 Suggested PCB Layout (PL-026)



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

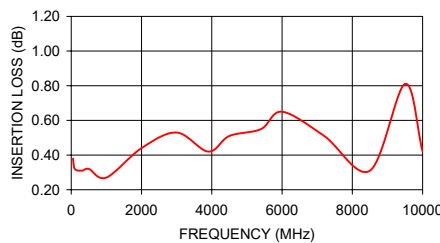
FREQ. RANGE (MHz)	INSERTION LOSS* (dB)		VSWR* (:1)		DC CURRENT (mA)	INDUCTANCE (μH) Typ.		
	Typ.	Max.	Typ.	Max.		@ 0mA	@ 50mA	@ 100mA
50-8000	0.3	1.0	1.1	1.35	100	7.0	1.8	1.0
50-10000	0.3	2.0	1.1	1.6	100	7.0	1.8	1.0

*tested with circuit shown below, Zo=50 ohms

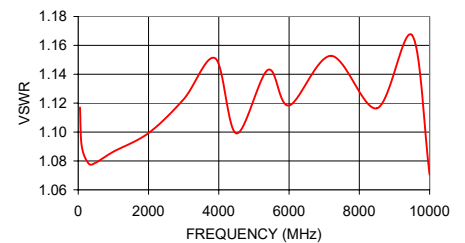
Typical Performance Data

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

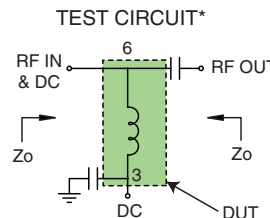
ADCH-80A+
INSERTION LOSS



ADCH-80A+
VSWR



Electrical Schematic



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.
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