

Coaxial Low Noise Amplifier

ZQL-1900LN+ ZQL-1900LN

50Ω 1850 to 1910 MHz

Features

- very low noise, 1.5 dB max.
- high IP3, +37 dBm
- rugged, shielded case

Applications

- PCS
- UMTS
- mobile satellite service



CASE STYLE: CW686

Connectors	Model	Price	Qty.
SMA	ZQL-1900LN(+)	\$249.00 ea.	(1-9)

+ 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.

Low Noise Amplifier Electrical Specifications

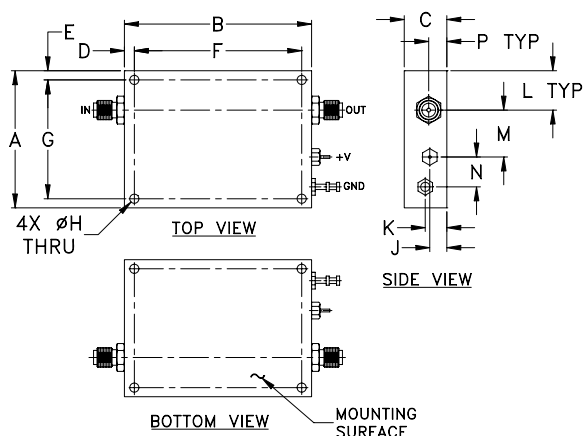
MODEL NO.	FREQUENCY (MHz)		NOISE FIGURE (dB)	GAIN (dB)		MAXIMUM POWER (dBm)		INTERCEPT POINT (dBm)	VSWR (:1) Typ.		DC POWER	
	f_L	f_U		Min.	Flatness Max.	Output (1 dB Compr.) Typ.	Input (no damage)		In	Out	Volt (V) Nom.	Current (mA) Max.
ZQL-1900LN(+)	1850	1910	1.5	15	±0.5	+19	+10	+37	1.15	1.25	15	160

Open load is not recommended, potentially can cause damage.
With no load derate max input power by 20 dB

Maximum Ratings

Operating Temperature	-40°C to 70°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V Max.

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	wt
1.77	2.42	.55	.13	.12	2.165	1.535	.126	.22	.28	.51	.61	.39	0.22	grams
44.96	61.47	13.97	3.30	3.05	55.0	39.0	3.20	5.59	7.11	12.95	15.49	9.91	5.59	71.0

Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

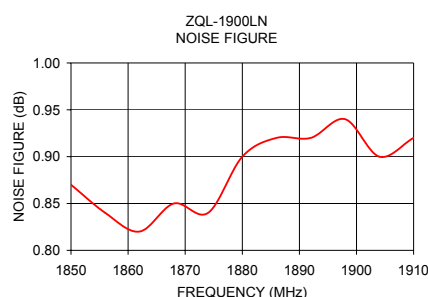
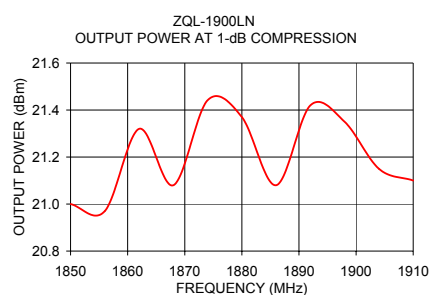
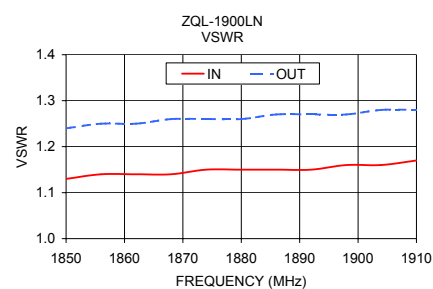
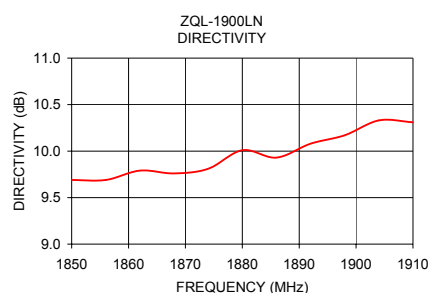
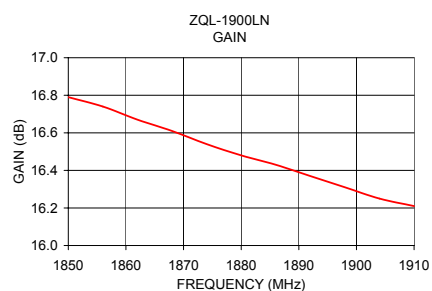
IF/RF MICROWAVE COMPONENTS

REV. C
M121868
ZQL-1900LN
090319
Page 1 of 2

Typical Performance Data/Curves

ZQL-1900LN+ ZQL-1900LN

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	15V		IN	OUT		
1850.00	16.79	9.69	1.13	1.24	0.87	21.00
1856.00	16.74	9.69	1.14	1.25	0.84	20.97
1862.00	16.67	9.79	1.14	1.25	0.82	21.32
1868.00	16.61	9.76	1.14	1.26	0.85	21.08
1874.00	16.54	9.81	1.15	1.26	0.84	21.44
1880.00	16.48	10.01	1.15	1.26	0.90	21.37
1886.00	16.43	9.93	1.15	1.27	0.92	21.08
1892.00	16.37	10.08	1.15	1.27	0.92	21.42
1898.00	16.31	10.17	1.16	1.27	0.94	21.35
1904.00	16.25	10.33	1.16	1.28	0.90	21.15
1910.00	16.21	10.31	1.17	1.28	0.92	21.10



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

minicircuits.com

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS