

Coaxial Low Noise Amplifier

50Ω 1800 to 2000 MHz

ZQL-1900MLNW+
ZQL-1900MLNW



Features

- very low noise, 1.6 dB max.
- high IP3, +41dBm typ.
- rugged, shielded case

Applications

- PCS
- mobile satellite service
- UMTS

CASE STYLE: CW686

Connectors	Model	Price	Qty.
SMA	ZQL-1900MLNW(+)	\$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-1900MLNW(+)	1800	2000	1.6	23	±2.0	+25	+3	+41	1.4	1.25	15	310

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

*Measured at 1900 MHz

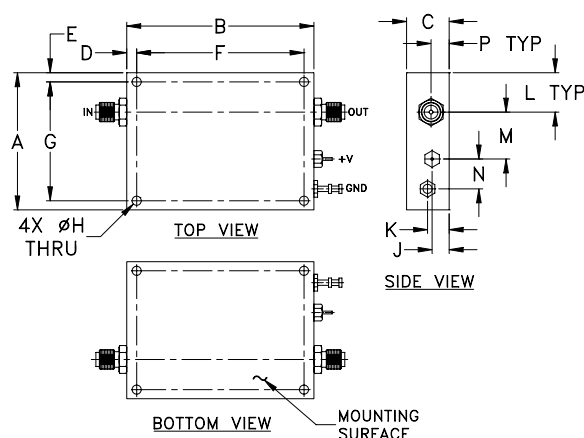
Maximum Ratings

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

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IF/RF MICROWAVE COMPONENTS

REV. B
M123080
ZQL-900MLN
090601
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Typical Performance Data/Curves

ZQL-1900MLNW+ ZQL-1900MLNW

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	15V		IN	OUT		15V
1800.00	27.96	16.90	1.22	1.28	1.16	27.59
1850.00	27.36	17.00	1.28	1.14	1.18	27.48
1859.00	27.27	17.20	1.30	1.12	1.18	27.49
1865.00	27.22	17.30	1.30	1.11	1.17	27.37
1874.00	27.14	17.70	1.31	1.10	1.17	27.35
1886.00	27.05	17.90	1.33	1.08	1.18	27.23
1895.00	26.96	17.60	1.34	1.08	1.18	27.17
1901.00	26.89	17.20	1.34	1.08	1.18	27.09
1910.00	26.80	18.40	1.34	1.08	1.16	27.11
2000.00	26.03	18.40	1.35	1.25	1.14	26.58

