

Coaxial

Low Noise Amplifier

ZQL-1900MLNW+**50Ω****1800 to 2000 MHz****Features**

- Very low noise figure, 1.6 dB max.
- High IP3, +41 dBm typ.
- Rugged, shielded case

Applications

- PCS
- UMTS
- Mobile satellite service



Case Style: CW686

Connectors Model

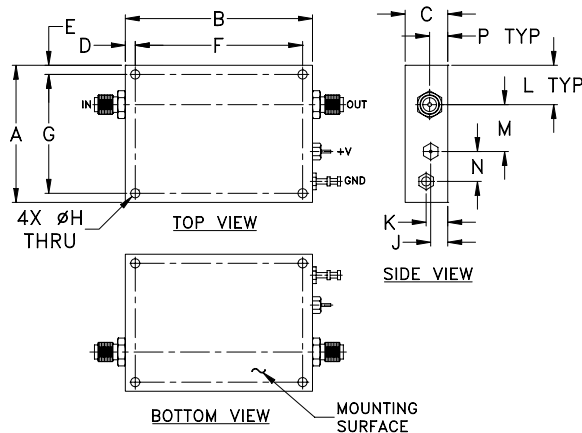
SMA ZQL-1900MLNW+**+RoHS Compliant**

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

Electrical Specifications

Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		1800		2000	MHz
Noise Figure	1800-2000	—	—	1.6	dB
Gain	1800-2000	23	—	—	dB
Gain Flatness	1800-2000	—	—	±2.0	dB
Output Power at 1dB compression	1800-2000	—	+25	—	dBm
Output third order intercept point	1800-2000	—	+41	—	dBm
Input VSWR	1800-2000	—	1.4	—	:1
Output VSWR	1800-2000	—	1.25	—	:1
DC Supply Voltage	1800-2000	—	15	—	V
Supply Current	1800-2000	—	—	310	mA

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

Outline Drawing**Maximum Ratings**

Parameter	Ratings
Operating Temperature	-40°C to 70°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V
Input RF Power (no damage)	+3 dBm

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

Outline Dimensions (inch)

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

Notes

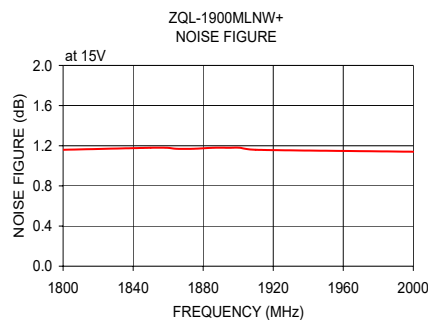
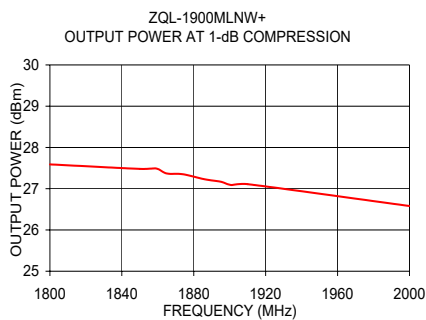
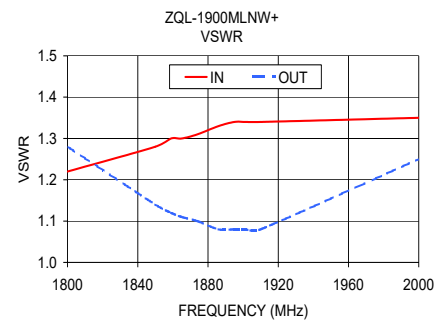
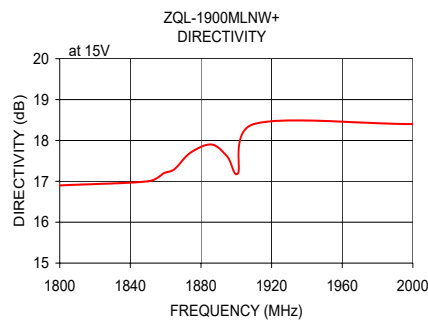
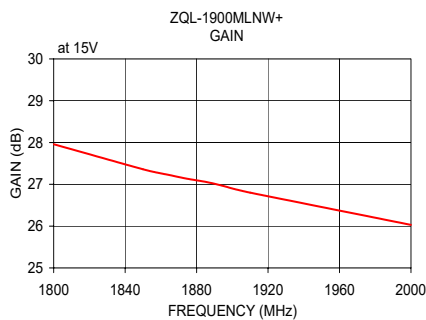
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Page 1 of 2

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	15V	15V	IN	OUT	15V	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



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