

Coaxial Low Noise Amplifier

ZQL-900LNW+ ZQL-900LNW

50Ω

800 to 900 MHz

Features

- very low noise, 1.6 dB max.
- high IP3, +35 dBm typ.
- rugged, shielded case

Applications

- UHF
- communications systems
- cellular



CASE STYLE: CW686

Connectors	Model	Price	Qty.
SMA	ZQL-900LNW(+)	\$229.00 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-900LNW(+)	800	900	1.6	13	±1.6	+21	+10	+35	1.2	1.1	15	160

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

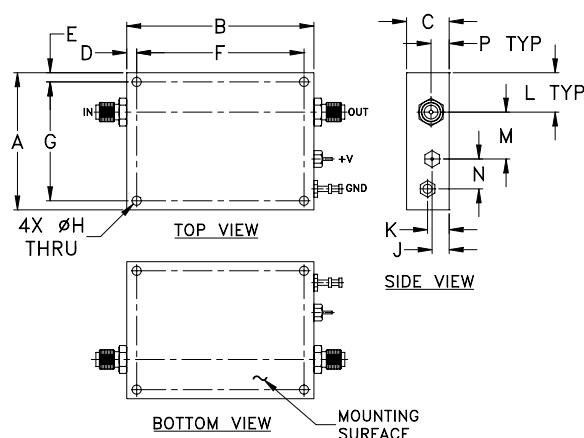
Maximum Ratings

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

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IF/RF MICROWAVE COMPONENTS

REV. A
M122422
ZQL-900LNW
090413
Page 1 of 2

Typical Performance Data/Curves

ZQL-900LNW+ ZQL-900LNW

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	15V	15V	IN	OUT	15V	15V
800.00	17.28	6.50	1.14	1.17	0.82	22.93
811.10	17.11	6.60	1.13	1.17	0.82	22.86
822.20	16.93	6.80	1.12	1.17	0.83	22.89
833.30	16.73	6.90	1.12	1.17	0.85	23.00
844.40	16.53	7.10	1.12	1.17	0.87	22.91
855.60	16.31	7.30	1.12	1.16	0.85	22.98
866.70	16.09	7.50	1.11	1.16	0.89	22.87
877.80	15.90	7.70	1.11	1.15	0.88	22.99
888.90	15.71	7.90	1.11	1.15	0.90	22.94
900.00	15.52	8.20	1.11	1.14	0.90	23.00

