

Coaxial

# Low Noise Amplifier

## 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 has been added in order to identify 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	
	$f_L$	$f_U$		Max.	Min.	Flatness Max.	Output (1 dB Compr.) Typ.		Input (no damage)	IP3 Typ.	In	Out
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

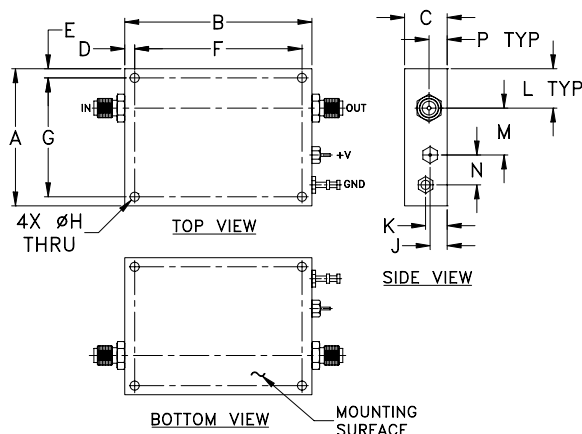
Operating Temperature -40°C to 70°C

Storage Temperature -55°C to 100°C

DC Voltage +17V Max.

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

### 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



ISO 9001 ISO 14001 AS 9100 CERTIFIED

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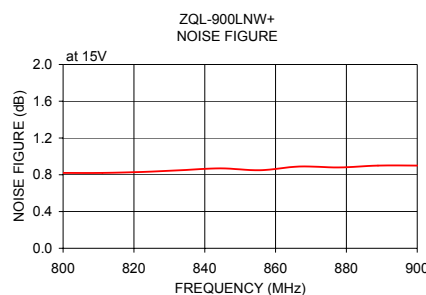
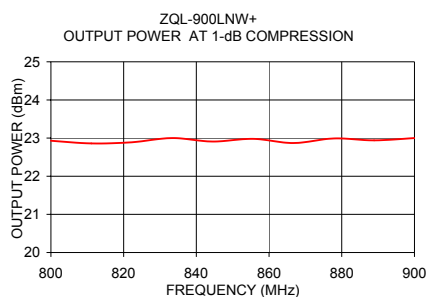
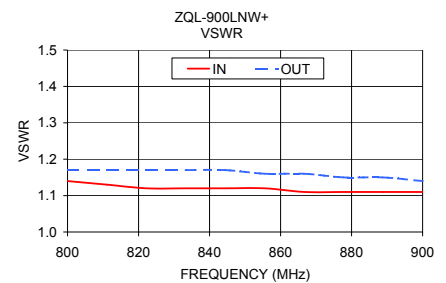
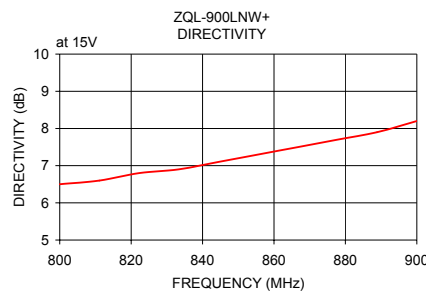
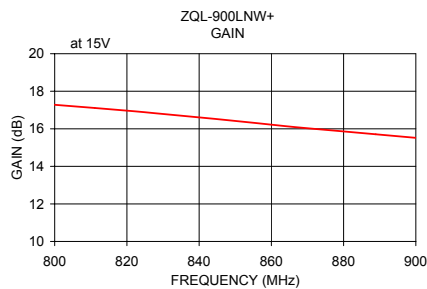
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# Typical Performance Data/Curves

# 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



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