Low Noise Amplifier

ZQL-900MLNW+ **ZQL-900MLNW**

 50Ω

800 to 900 MHz

Features

- Very low noise figure, 1.7 dB max.
- High IP3, +41 dBm typ.
- Rugged, shielded case

Applications

- UHF
- · Communications systems
- Cellular



Case Style: CW686

Connectors	Model	Price	Qty.
SMA	ZQL-900MLNW(+)	\$249.00 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

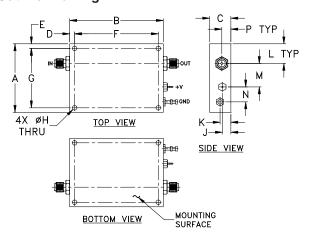
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

Parameter	Condition (MHz)	Min.	Тур.	Max.	Units
Frequency Range		800		900	MHz
Noise Figure	800-900	_	_	1.7	dB
Gain	800-900	22	_	-	dB
Gain Flatness	800-900	_	_	±2.2	dB
Output Power at 1dB compression	800-900	_	+23	_	dBm
Output third order intercept point	800-900	_	+41	_	dBm
Input VSWR	800-900	_	1.3	_	:1
Output VSWR	800-900	_	1.4	_	:1
DC Supply Voltage	800-900	_	15	_	V
Supply Current	800-900	_	_	230	mA

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

Outline Drawing



Outline Dimensions (inch)

wt	Р	N	M	L	K	J	Н	G	F	Е	D	С	В	Α
grams	0.22	.39	.61	.51	.28	.22	.126	1.535	2.165	.12	.13	.55	2.42	1.77
71.0	5.59	9.91	15.49	12.95	7.11	5.59	3.20	39.0	55.0	3.05	3.30	13.97	61.47	44.96

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)	+10 dBm		

Permanent damage may occur if any of these limits are exceeded

For detailed performance specs

ISO 9001 ISO 14001 AS 9100 CERTIFIED
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine

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FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	15V	15V	IN	OUT	15V	15V
750.00	29.52	17.20	1.34	1.41	1.08	27.68
800.00	29.30	19.90	1.14	1.36	1.07	27.85
824.00	27.69	21.10	1.22	1.35	1.11	28.07
830.00	27.52	21.70	1.25	1.35	1.12	27.80
833.00	27.46	22.20	1.26	1.35	1.12	27.87
839.00	27.31	26.90	1.28	1.34	1.14	27.88
842.00	27.21	21.10	1.29	1.34	1.14	28.16
849.00	27.03	24.40	1.32	1.34	1.14	28.14
900.00	25.81	24.40	1.48	1.32	1.31	28.39
1000.00	23.60	27.70	1.68	1.37	1.67	28.69

