

Coaxial

Low Noise Amplifier

ZEL-0812LN

50Ω

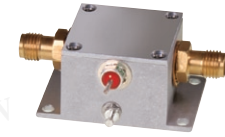
800 to 1200 MHz

Features

- very low noise figure, 1.5 dB max.
- wideband, 800 to 1200 MHz
- rugged, shielded case

Applications

- UHF
- cellular
- PCS/GSM



Case Style: EEE132

Connectors	Model	Qty.
SMA	ZEL-0812LN	(1-9)

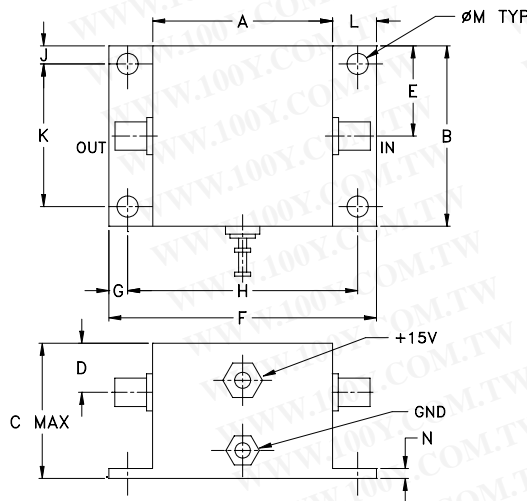
Electrical Specifications

Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		800		1200	MHz
Noise Figure	800-1200	—	—	1.5	dB
Gain	800-1200	20	—	—	dB
Gain Flatness	800-1200	—	—	±1.0	dB
Output Power at 1dB compression	800-1200	—	+8	—	dBm
Output third order intercept point	800-1200	—	+18	—	dBm
Input VSWR	800-1200	—	—	2.5	:1
Output VSWR	800-1200	—	—	2.5	:1
DC Supply Voltage	800-1200	—	15	—	V
Supply Current	800-1200	—	—	70	mA

Noise Figure specified at room temperature, increases to 2 dB typical at +85°C

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	-54°C to 85°C
Storage Temperature	-55°C to 100°C
DC Voltage	17V
Input RF Power (no damage)	+13 dBm

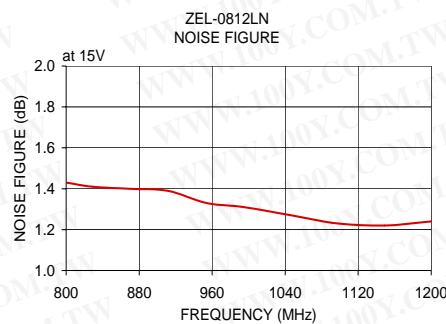
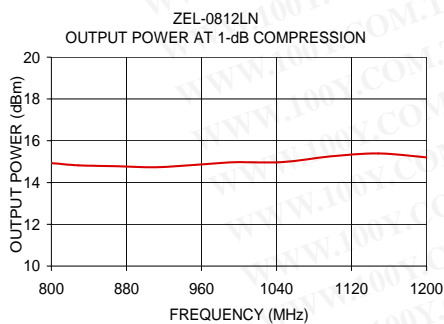
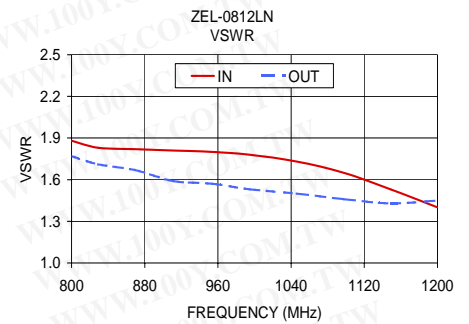
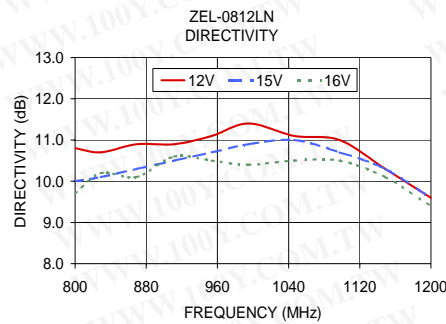
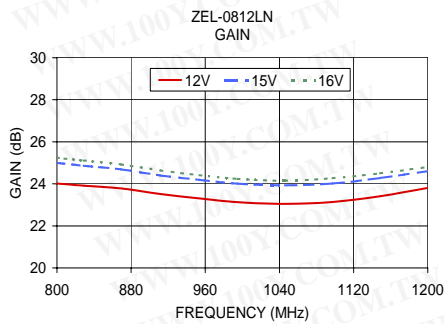
Permanent damage may occur if any of these limits are exceeded.

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	wt
.90	.90	.675	.245	.45	1.34	.09	1.152	.09	.712	.22	.106	.05	grams
22.86	22.86	17.15	6.22	11.43	34.04	2.29	29.26	2.29	18.08	5.59	2.69	1.27	50.0

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	P _{OUT} at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT		
800.00	24.02	25.00	25.24	10.80	10.00	9.70	1.88	1.77	1.43	14.93
829.00	23.91	24.86	25.11	10.70	10.10	10.20	1.83	1.71	1.41	14.82
869.20	23.78	24.69	24.92	10.90	10.30	10.10	1.82	1.67	1.40	14.78
911.50	23.52	24.40	24.64	10.90	10.50	10.60	1.81	1.59	1.39	14.73
953.80	23.31	24.19	24.41	11.10	10.70	10.50	1.80	1.57	1.33	14.85
994.90	23.13	24.01	24.24	11.40	10.90	10.40	1.78	1.53	1.31	14.97
1046.20	23.05	23.93	24.15	11.10	11.00	10.50	1.73	1.50	1.27	14.98
1097.40	23.14	24.02	24.27	11.00	10.70	10.50	1.65	1.46	1.23	15.25
1148.70	23.41	24.28	24.50	10.30	10.30	10.10	1.53	1.43	1.22	15.39
1200.00	23.81	24.61	24.80	9.60	9.60	9.40	1.40	1.45	1.24	15.20



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