

Coaxial

# Low Noise Amplifier

## ZEL-1217LN

50Ω

1200 to 1700 MHz

### Features

- very low noise, 1.5 dB typ.
- wideband, 1200 to 1700 MHz
- rugged, shielded case

### Applications

- GPS
- mar sat
- communication systems



CASE STYLE: EEE132

Connectors	Model	Price	Qty.
SMA	ZEL-1217LN	\$274.95	(1-9)

### Low Noise Amplifier Electrical Specifications

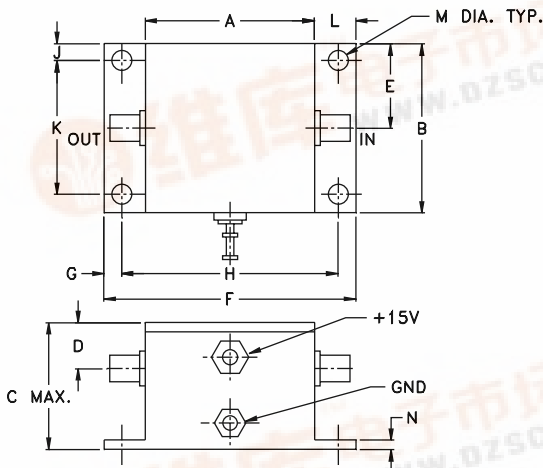
MODEL NO.	FREQUENCY (MHz)		NOISE FIGURE (dB)	GAIN (dB)		MAXIMUM POWER (dBm)		INTERCEPT POINT (dBm)	VSWR (:1) Max.		DC POWER	
	$f_L$	$f_U$		Max.	Min.	Flatness Max.	Output (1 dB Compr.) Typ.		Input (no damage)	IP3 Typ.	In	Out
ZEL-1217LN	1200	1700	1.5	20	±1.0	+8	+13	+25	2.5	2.5	15	70

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

### Maximum Ratings

Operating Temperature	-54°C to 85°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
.90	.90	.675	.245	.45	1.34	.09
22.86	22.86	17.15	6.22	11.43	34.04	2.29
H	J	K	L	M	N	wt
1.152	.09	.712	.22	.106	.05	grams
29.26	2.29	18.08	5.59	2.69	1.27	50.0

# Typical Performance Data/Curves

# ZEL-1217LN

FREQUENCY (MHz)	GAIN (dB)			DIRECTIVITY (dB)			VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	15V	16V	12V	15V	16V	IN	OUT		
1200.00	29.28	30.36	30.62	9.70	9.00	9.20	1.97	1.40	1.30	11.67
1236.60	29.06	30.12	30.37	10.50	9.80	9.70	1.97	1.35	1.20	11.72
1287.00	28.74	29.77	30.00	10.40	10.40	10.10	2.01	1.33	1.11	11.81
1339.60	28.41	29.42	29.65	11.40	11.10	11.20	2.08	1.32	1.08	11.74
1392.30	28.23	29.21	29.45	11.50	11.20	11.30	2.12	1.32	1.09	11.83
1443.60	28.23	29.21	29.42	11.80	11.60	11.70	2.12	1.35	1.14	12.05
1507.70	28.31	29.24	29.44	11.50	11.90	11.70	2.08	1.37	1.22	12.07
1571.80	28.53	29.41	29.61	11.30	11.30	11.50	2.00	1.41	1.32	12.47
1635.90	29.13	29.91	30.07	10.10	10.10	10.10	1.86	1.44	1.43	12.79
1700.00	30.01	30.62	30.77	8.10	8.80	8.70	1.63	1.57	1.49	13.13

