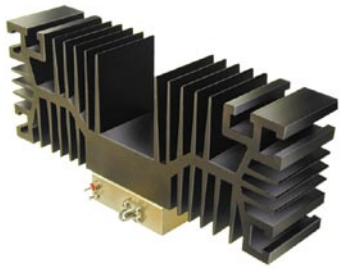
Coaxial

Amplifier

ZVE-8G

50Ω Medium High Power 2000 to 8000 MHz



CASE STYLE: BN333

Connectors	Model	Price	Qty.
SMA	ZVE-8G	$1095.00	(1-9)

Features

- wideband, 2 to 8 GHz
- low noise, 4 dB typ.
- high IP3, +40 dBm typ.
- high dynamic range
- high gain, 30 dB min
- hermetic package, field replaceable connectors

Applications

- satellite communications
- line-of-sight transmitters
- signal generators
- spread-spectrum communication

Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)		MAXIMUM POWER (dBm)		DYNAMIC RANGE		VSWR (:1) Max.		DC POWER	
	f_L	f_U	Min.	Flatness Max.	Output (1 dB Compr. Min.)	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (A) Max.
ZVE-8G	2000	8000	30	±2.0	+30*	+20	4	+40	2.0	2.0	12	1.2

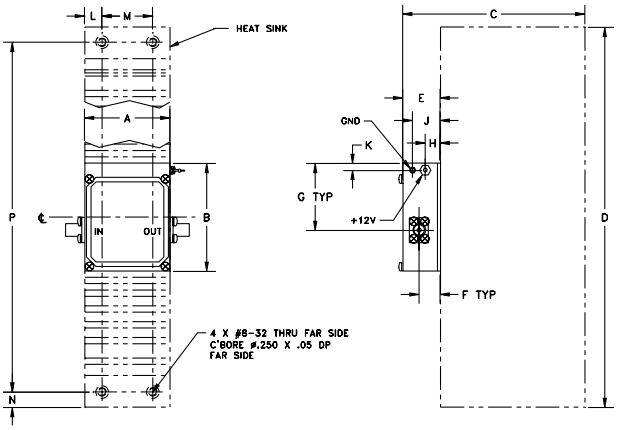
*At 25°C; +30 dBm typ. at 54°C ambient.

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

Maximum Ratings

Operating Temperature	-55°C to 54°C
Storage Temperature	-65°C to 150°C
DC Voltage	+18V Max.

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
1.680	2.130	3.6	7.5	.75	.42	1.32	.30
42.67	54.10	91.44	190.50	19.05	10.67	33.53	7.62

J	K	L	M	N	P		wt
.55	.33	.34	1.000	.30	6.900		grams
13.97	8.38	8.64	25.40	7.62	175.26		755

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		NOISE FIGURE (dB)	POUT at 1 dB COMPR. (dBm)
	12V	12V	IN	OUT	12V	12V
2000.00	35.04	13.10	1.28	1.36	5.23	31.11
2300.00	35.84	14.00	1.36	1.16	4.89	32.06
2600.00	36.02	21.60	1.41	1.13	4.44	32.27
3200.00	35.54	22.60	1.32	1.30	4.16	32.63
3500.00	35.33	43.10	1.27	1.30	4.11	32.74
3800.00	35.25	24.80	1.25	1.35	4.05	32.72
4100.00	35.30	21.00	1.21	1.44	4.05	32.13
4400.00	35.08	25.00	1.17	1.51	4.09	32.36
4700.00	34.96	17.30	1.13	1.52	4.10	32.37
5000.00	34.86	15.60	1.10	1.51	4.08	32.56
5300.00	34.78	17.40	1.09	1.48	4.15	31.74
5600.00	34.74	21.30	1.18	1.41	4.16	32.04
5900.00	34.85	19.00	1.29	1.28	4.23	32.01
6200.00	35.03	16.40	1.43	1.17	4.37	32.08
6500.00	35.07	25.70	1.47	1.19	4.33	31.98
6800.00	35.37	13.50	1.41	1.32	4.26	31.97
7100.00	35.63	18.80	1.40	1.42	4.34	31.50
7400.00	35.95	20.10	1.42	1.33	4.36	31.59
7700.00	35.84	11.80	1.42	1.29	4.22	31.48
8000.00	35.41	18.50	1.27	1.34	4.20	31.57

