

Coaxial Amplifier

ZRON-8G

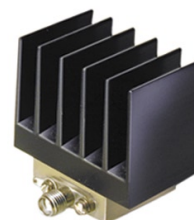
50Ω Medium Power 2000 to 8000 MHz

Features

- wideband, 2 to 8 GHz
- hermetic package, field replaceable connectors
- unconditionally stable
- high IP3, +30 dBm typ.

Applications

- optical and spread-spectrum communications
- line-of-site transmit/receive
- wideband test instrumentation



CASE STYLE: AV243

Connectors	Model	Price	Qty.
SMA	ZRON-8G	\$495.00	(1-9)

Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)		MAXIMUM POWER (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f_L	f_U	Min.	Flatness Max.	Output (1 dB Compr.)	Input (no damage)	NF (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZRON-8G	2000	8000	20	±1.5*	+20	+10	6.0	+30	2.0	2.0	15	310

*Measured at 25°C

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

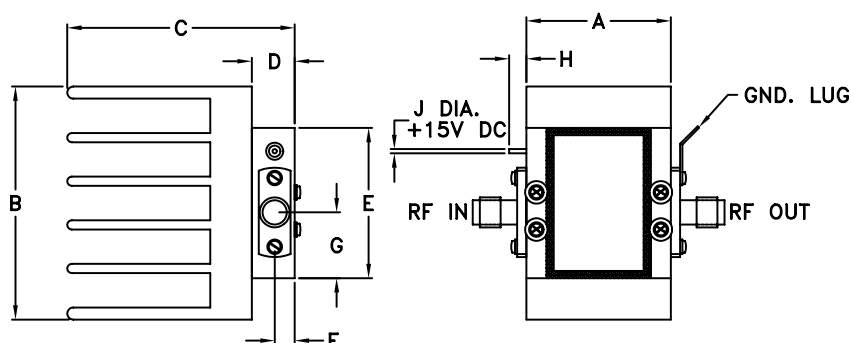
Maximum Ratings

Operating Temperature, case 0°C to 60°C

Storage Temperature -55°C to 125°C

DC Voltage +18V Max.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
1.01	1.63	1.59	.30	1.05	.14
25.65	41.40	40.39	7.62	26.67	3.56
G	H	J	wt		
.46	.12	.030	grams		
11.68	3.05	0.76	18		

Typical Performance Data/Curves

ZRON-8G

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		
2000.00	23.34	23.22	23.25	35.10	43.10	51.20	1.10	1.25	6.14	22.93
2300.00	23.07	22.94	22.94	37.30	44.40	47.50	1.08	1.33	6.08	24.04
2600.00	22.80	22.75	22.70	41.20	50.90	35.20	1.08	1.33	5.87	24.91
3200.00	22.75	22.65	22.66	40.70	37.60	34.90	1.14	1.27	5.70	24.87
3500.00	22.62	22.43	22.47	47.40	47.60	36.40	1.19	1.27	5.73	24.80
3800.00	22.52	22.38	22.33	40.30	37.40	41.70	1.24	1.31	5.54	24.95
4100.00	22.43	22.32	22.38	40.80	37.90	41.50	1.28	1.36	5.25	24.73
4400.00	22.40	22.28	22.29	46.70	43.00	45.50	1.31	1.42	5.14	25.11
4700.00	22.30	22.25	22.25	40.80	40.40	51.10	1.35	1.47	5.07	25.27
5000.00	22.41	22.34	22.34	39.00	50.30	42.50	1.40	1.48	4.92	25.41
5300.00	22.72	22.63	22.68	40.40	43.30	35.80	1.44	1.44	4.75	24.91
5600.00	22.75	22.62	22.69	34.50	38.00	36.20	1.46	1.35	4.74	25.05
5900.00	22.90	22.72	22.85	41.00	31.50	38.40	1.41	1.22	4.80	25.24
6200.00	22.98	22.77	22.96	32.00	28.10	30.90	1.33	1.10	4.69	25.33
6500.00	23.11	22.94	23.03	36.40	31.30	31.50	1.24	1.07	4.66	25.43
6800.00	23.50	23.30	23.44	31.20	29.90	30.90	1.16	1.13	4.76	25.34
7100.00	23.64	23.50	23.45	32.20	31.10	33.30	1.12	1.17	4.92	25.03
7400.00	23.64	23.49	23.56	30.40	35.70	33.60	1.19	1.24	5.07	25.25
7700.00	23.24	23.14	23.14	29.10	29.10	28.00	1.34	1.34	5.43	24.92
8000.00	22.65	22.52	22.55	26.90	27.10	28.10	1.53	1.37	5.87	24.48

