

Coaxial Wideband Amplifier

ZX60-V82+

50Ω 20 to 6000 MHz

Features

- Wideband, 20 to 6000 MHz
- Output power at 1dB compression, +19 dBm typ.
- Good output IP3, 35 dBm typ.
- Good return loss
- Unconditionally stable
- Protected by US patents 6,790,049 & 6,943,629

Applications

- Base station infrastructure
- CATV & DBS
- MMDS & wireless LAN
- LTE
- Buffer amplifier
- PCS
- Test equipment



Case Style: GC957

Connectors	Model	Price	Qty.
SMA	ZX60-V82-S+	\$69.95 ea.	(1-9)

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

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications at 25°C

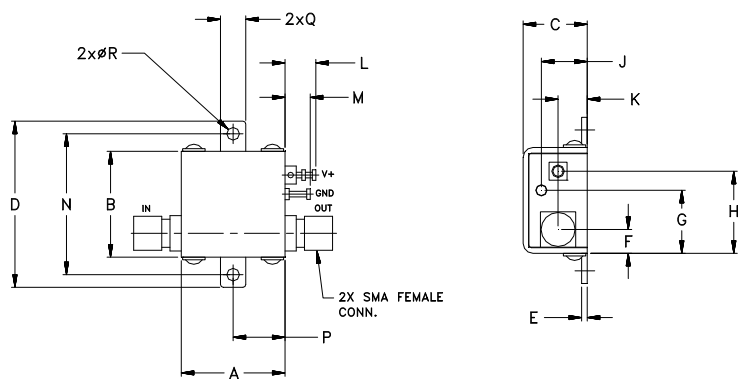
Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		20		6000	MHz
Gain	100	13.5	15.2	16.8	dB
	1000		14.7		
	2000	12.0	13.5	15.2	
	3000		12.3		
	4000	9.5	11.4	13.0	
	6000		9.1		
Output Power at 1dB compression	100	17.0	19.0		dBm
	1000	17.5	19.5		
	2000	18.0	20.0		
	3000		19.7		
	4000		19.4		
	6000		17.5		
Noise Figure	100		6.5	8.0	dB
	1000		6.7		
	2000		6.8	8.4	
	3000		6.9		
	4000		7.0		
	6000		7.7		
Output third order intercept point	100		38.5		dBm
	1000		36.5		
	2000	33.0	35.0		
	3000		34.0		
	4000		33.5		
	6000		31.0		
Input VSWR	100		1.10		:1
	1000		1.15		
	2000		1.30	1.5	
	3000		1.30		
	4000		1.30		
	6000		1.70		
Output VSWR	100		1.30		:1
	1000		1.40		
	2000		1.50	1.9	
	3000		1.70		
	4000		1.70		
	6000		2.30		
Active Directivity	20-6000		11		dB
DC Supply Voltage		4.8	5.0	5.2	V
Supply Current			100	120	mA

Maximum Ratings

Parameter	Ratings
Operating Temperature	-40°C to 85°C Case
Storage Temperature	-55°C to 100°C
DC Voltage	5.5 V
Input RF Power (no damage)	20 dBm
Power Consumption	840 mW

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

Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	wt.
0.74	.75	.46	1.18	.04	.17	.45	.59	.33	.21	.22	.18	1.00	.37	.18	.106	grams
18.80	19.05	11.68	29.97	1.02	4.32	11.43	14.99	8.38	5.33	5.59	4.57	25.40	9.40	4.57	2.69	23.0

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	POWER OUT @ 1dB COMPRESSION (dBm)	OUTPUT IP3 (dBm)	NF (dB)
20	14.83	9.70	1.19	1.48	18.46	38.01	6.26
100	15.15	9.03	1.07	1.27	19.23	38.50	6.51
420	15.06	9.18	1.08	1.27	19.50	37.95	6.65
1000	14.66	9.33	1.15	1.35	19.51	36.39	6.73
1220	14.43	9.46	1.18	1.39	19.57	36.12	6.74
1420	14.21	9.61	1.20	1.42	19.67	35.86	6.74
1620	13.96	9.79	1.22	1.46	19.55	35.71	6.75
2000	13.49	10.09	1.26	1.53	19.81	35.12	6.77
2220	13.21	10.23	1.28	1.58	19.80	34.93	6.80
2420	12.97	10.44	1.29	1.61	19.70	34.67	6.83
2620	12.72	10.61	1.29	1.64	19.87	34.48	6.84
3000	12.30	10.92	1.30	1.69	19.71	34.27	6.88
3420	11.88	11.15	1.29	1.72	19.47	33.61	6.91
4000	11.36	11.48	1.25	1.71	19.40	33.64	7.00
4420	11.03	11.69	1.20	1.72	19.14	33.14	7.08
5000	10.48	12.18	1.20	1.83	18.72	32.41	7.27
5420	9.94	12.78	1.34	2.05	18.36	31.90	7.38
6000	8.96	14.10	1.68	2.44	17.34	31.22	7.65
6620	7.66	15.87	2.11	2.81	16.55	30.43	7.90
7000	6.73	17.14	2.38	2.92	16.35	30.15	8.19

