Wideband Amplifier

ZX60-V82+

50 Ω **20 to 6000 MHz**

The Big Deal

- Ultra wideband
- High dynamic range:
 - +19dBm P1dB compression
 - +35dBm Output IP3



CASE STYLE: GC957

Product Overview

The ZX60-V82+ (RoHS compliant) is a very compact wideband amplifier covering 20 to 6000MHz with 13.5dB gain (at 2GHz). Housed in a rugged, cost effective unibody chassis, this amplifier supports a wide variety of applications requiring moderate power output, low distortion and 50 ohm matched input/output ports.

Key Features

Feature	Advantages						
Ultra Wide band high dynamic range	The ZX60-V82+ covers a wide spectrum of application frequencies from VHF through 'C' band. When combined with the output power and IP3, this amplifier supports a broad array of systems and test applications.						
Well Matched input / output ports	With typical input VSWR of 1.3:1 and output VSWR of 1.5:1 at 2GHz, the ZX60-V82+ can be used in cascade with many components and maintain minimal interaction or reflections.						
Very small size, 0.75" x 0.75'	The unique unibody construction enables the ZX60-V82+ to be used in compact designs.						
Unconditionally stable	No adverse effects due to loading of the input and output ports.						

For detailed performance specs & shopping online see web site

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



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipality.com IF/RF MICROWAVE COMPONENTS

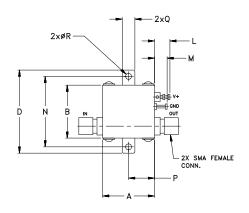


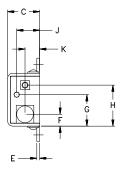
Maximum Ratings

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





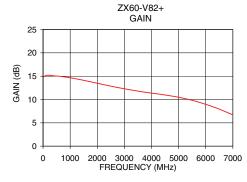
Outline Dimensions (inch)

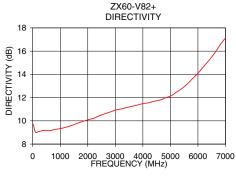
wt.	R	Q	Р	N	M	L	K	J	Н	G	F	Ε	D	С	В	Α
grams	.106	.18	.37	1.00	.18	.22	.21	.33	.59	.45	.17	.04	1.18	.46	.75	0.74
23.0	2.60	4.57	0.40	25.40	1 57	5 50	E 33	0 20	1/ 00	11 /2	1 22	1 02	20.07	11 69	10.05	10 00

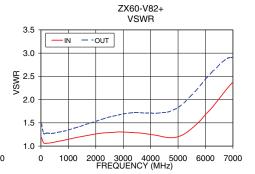


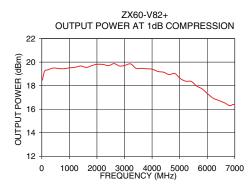
For detailed performance specs & shopping online see web site

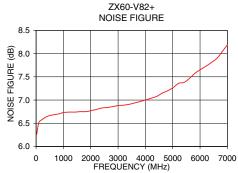
FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	POWER OUT @ 1dB COMPRESSION (dBm)	OUTPUT IP3 (dBm)	NF (dB)
20	14.83	9.70	1.19	1.48	18.46	38.01	6.26
100	15.15	9.03	1.07	1.27	19.23	38.50	6.51
420	15.06	9.18	1.08	1.27	19.50	37.95	6.65
1000	14.66	9.33	1.15	1.35	19.51	36.39	6.73
1220	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

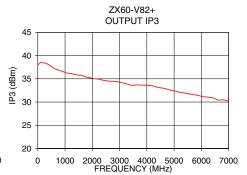












Mini-Circuits

ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipality.com