

Coaxial Wideband Amplifier

ZX60-V83+

50Ω 20 to 4700 MHz

Features

- Wideband, 20 to 4700 MHz
- Output power at 1dB compression, +17 dBm typ.
- Good output IP3, 30 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-V83-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		4700	MHz
Gain	100	18.0	20.0	22.0	dB
	1000		19.0		
	2000	15.0	16.8	18.5	
	3000		15.0		
	4000	11.5	13.5	15.0	
	4700		12.3		
Output Power at 1dB compression	100	15.0	17.0		dBm
	1000	15.0	17.0		
	2000	15.0	17.0		
	3000		17.0		
	4000		18.0		
	4700		17.5		
Noise Figure	100		6.0	7.2	dB
	1000		6.0		
	2000		6.0	7.3	
	3000		6.0		
	4000		6.5		
	4700		6.8		
Output third order intercept point	100		29.5		dBm
	1000		30.0		
	2000	28.0	31.0		
	3000		31.0		
	4000		30.0		
	4700		29.5		
Input VSWR	100		1.10		:1
	1000		1.20		
	2000		1.25	1.6	
	3000		1.30		
	4000		1.20		
	4700		1.30		
Output VSWR	100		1.35		:1
	1000		1.50		
	2000		1.70	2.3	
	3000		1.80		
	4000		1.70		
	4700		1.75		
Active Directivity	20-4700		10		dB
DC Supply Voltage		4.8	5.0	5.2	V
Supply Current			72	82	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



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IF/RF MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

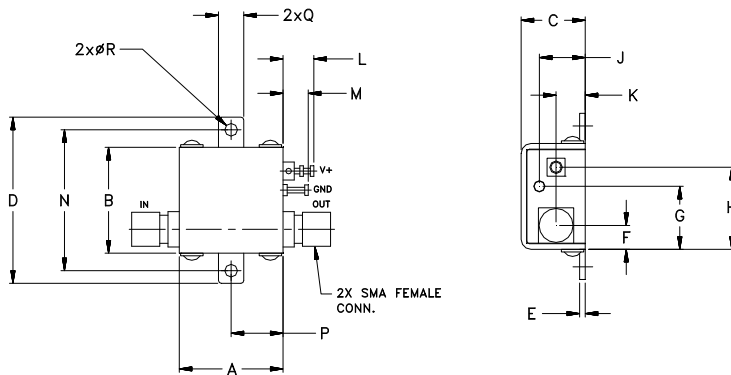
REV. OR
M123383
RTB-89/2
ZX60-V83+
RAV
091015
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Maximum Ratings

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	740 mW

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

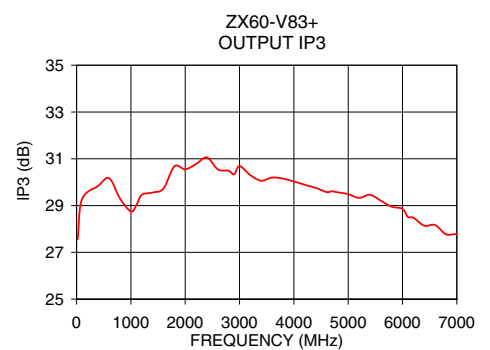
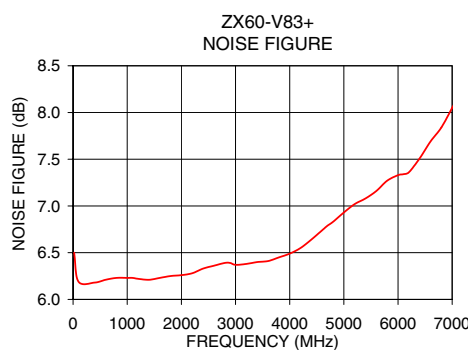
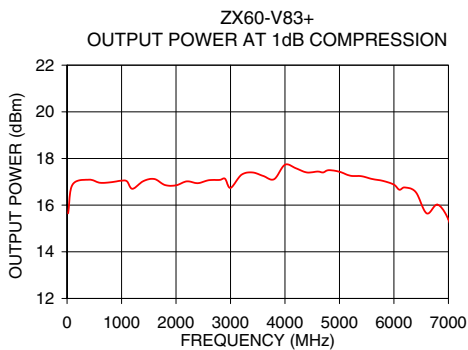
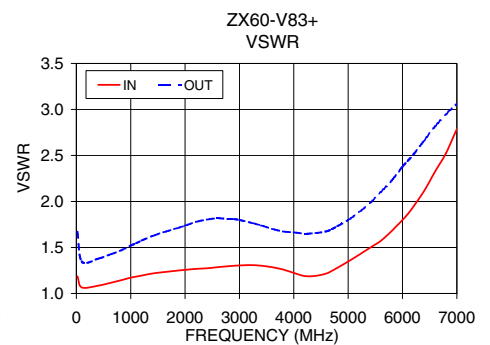
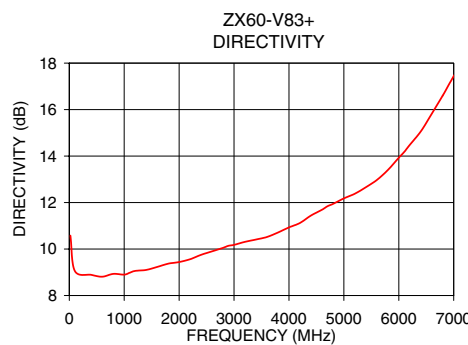
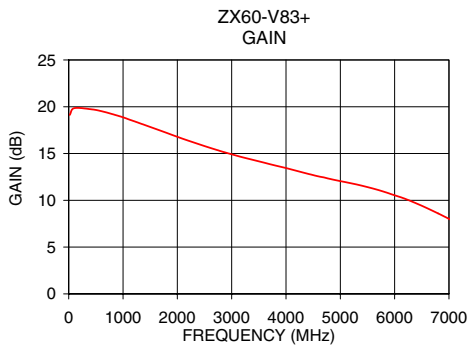
Outline Drawing



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	19.12	10.58	1.19	1.67	15.65	27.56	6.50
100	19.84	9.06	1.07	1.35	16.88	29.27	6.19
400	19.74	8.89	1.08	1.38	17.09	29.85	6.18
1000	18.87	8.90	1.17	1.52	17.05	28.75	6.23
1200	18.46	9.06	1.19	1.58	16.70	29.46	6.22
1400	18.05	9.10	1.22	1.62	17.03	29.56	6.21
1600	17.63	9.23	1.23	1.66	17.12	29.73	6.23
2000	16.79	9.44	1.26	1.74	16.85	30.55	6.26
2200	16.38	9.56	1.27	1.78	17.02	30.78	6.28
2400	15.99	9.75	1.27	1.80	16.94	31.06	6.33
2600	15.61	9.90	1.29	1.82	17.07	30.55	6.36
3000	14.92	10.18	1.30	1.80	16.74	30.69	6.37
3400	14.31	10.41	1.30	1.74	17.40	30.06	6.40
4000	13.45	10.93	1.22	1.66	17.73	30.03	6.49
4400	12.84	11.44	1.19	1.66	17.40	29.76	6.64
4700	12.44	11.84	1.25	1.70	17.40	29.61	6.79
5000	12.05	12.18	1.35	1.80	17.43	29.49	6.93
6000	10.54	13.93	1.80	2.38	16.88	28.86	7.33
6600	9.15	15.82	2.33	2.82	15.65	28.17	7.69
7000	8.02	17.44	2.78	3.06	15.38	27.77	8.05



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