Coaxial

Wideband Amplifier

ZX60-V81+

50Ω 20 to 6000 MHz

Features

- Wideband, 20 to 6000 MHz
- Output power at 1dB compression, +18.5 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-V81-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	9.5	10.5	11.5	dB
	1000		10.2		
	2000	8.5	9.7	11.0	
	3000		9.0		
	4000	7.3	8.5	10.0	
	6000		7.0		
Output Power at 1dB compression	100	17.0	18.5		dBm
	1000	17.0	18.5		
	2000	17.0	18.5		
	3000		19.0		
	4000		18.5		
	6000		16.5		
Noise Figure	100		7.5	9.0	dB
	1000		8.0		
	2000		8.0	9.5	
	3000		8.0		
	4000		8.0		
	6000		9.0		
Output third order intercept point	100		39.5		dBm
	1000		37.0		
	2000	32	36.0		
	3000		35.0		
	4000		34.0		
	6000		31.0		
Input VSWR	100		1.10	1.5	:1
	1000		1.10		
	2000		1.20		
	3000		1.20		
	4000		1.20		
	6000		1.70		
Output VSWR	100		1.10	1.7	:1
	1000		1.15		
	2000		1.25		
	3000		1.40		
	4000		1.40		
	6000		1.90		
Active Directivity	20-6000		13		dB
DC Supply Voltage		4.8	5.0	5.2	V
Supply Current			103	115	mA

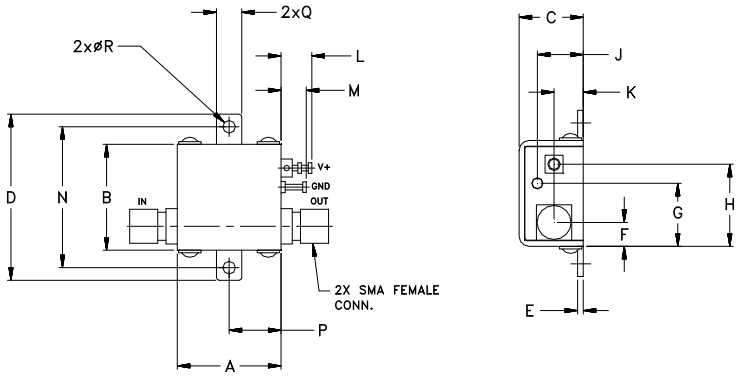
REV. A
M124007
RTB-87/2
ZX60-V81+
RAV
091015

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	1 W

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	10.57	10.23	1.19	1.38	17.89	38.23	7.24
100	10.47	10.00	1.10	1.09	18.64	40.29	7.53
420	10.39	10.16	1.10	1.07	18.93	39.27	7.70
1000	10.24	10.35	1.14	1.13	18.59	37.75	7.78
1220	10.14	10.48	1.15	1.16	18.57	37.42	7.80
1420	10.04	10.63	1.16	1.18	18.56	37.20	7.80
1620	9.93	10.77	1.18	1.20	18.67	37.08	7.79
2000	9.72	11.10	1.20	1.25	18.60	36.32	7.82
2220	9.60	11.27	1.21	1.27	19.31	36.02	7.84
2420	9.49	11.46	1.21	1.29	19.12	35.71	7.85
2620	9.36	11.62	1.21	1.31	19.33	35.45	7.88
3000	9.17	11.89	1.21	1.35	19.02	35.01	7.90
3420	8.96	12.21	1.19	1.38	18.90	34.24	7.88
4000	8.67	12.68	1.15	1.38	18.77	33.82	7.96
4420	8.49	12.91	1.16	1.39	18.47	33.17	8.05
5000	8.14	13.43	1.30	1.46	18.12	32.35	8.28
5420	7.75	14.00	1.52	1.61	17.83	31.68	8.41
6000	7.01	15.17	1.92	1.88	16.84	30.83	8.73
6620	5.92	16.71	2.46	2.16	15.96	29.90	9.08
7000	5.12	17.90	2.80	2.28	15.67	29.40	9.46