

Coaxial Amplifier

50Ω 0.5 to 4000 MHz

ZX60-43-S+

Features

- wide bandwidth, 0.5 to 4000 MHz
- output power, up to 18.5 dBm typ.
- protected by US patent 6,790,049 & 6,943,629

Applications

- buffer amplifier
- driver amplifier
- cellular
- PCS
- GPS
- bluetooth
- instrumentation
- test equipment



CASE STYLE: GC957

Connectors Model
SMA ZX60-43-S+

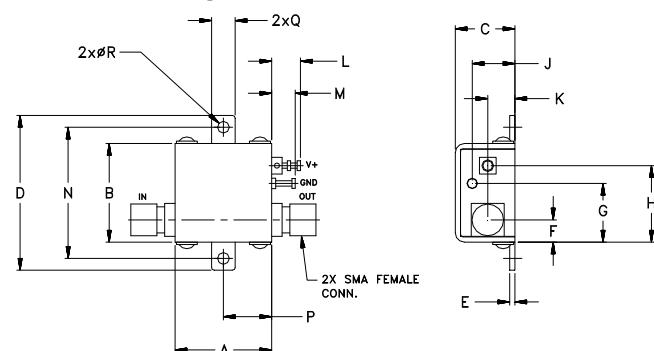
+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C

Parameter	Condition (MHz)	5.0V			Units
		Min	Typ.	Max.	
Frequency		0.5		4000	MHz
Gain	100	—	23.1	—	dB
	1000	—	21.7	—	
	2000	17	18.6	—	
	4000	—	14.3	—	
Output Power at 1dB compression	0.5	—	17.3	—	dBm
	4000	—	17.3	—	
Noise Figure		—	5.4	—	dB
Output third order intercept point		—	+33	—	dBm
Input VSWR		—	1.2	—	:1
Output VSWR		—	2.0	—	:1
Active Directivity		—	7-9	—	dB
Supply Current		—	90	110	mA

Outline Drawing



NOTE: When soldering the DC connections, caution must be used to avoid overheating the DC terminal. See Application Note. [AN-40-010](#).

Maximum Ratings

Parameter	Ratings
Operating Temperature	-40°C to 85°C Case
Storage Temperature	-55°C to 100°C
DC Voltage	7V
Input RF Power (no damage)	+13 dBm
Power	0.77W

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

Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	wt
.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

Notes

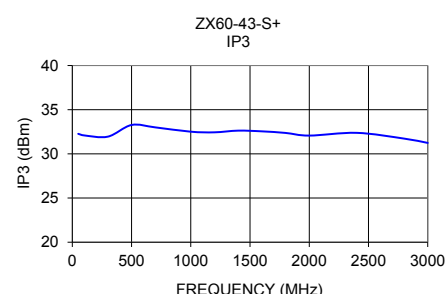
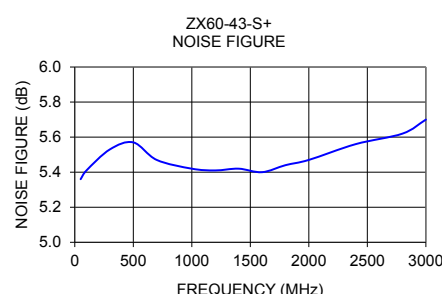
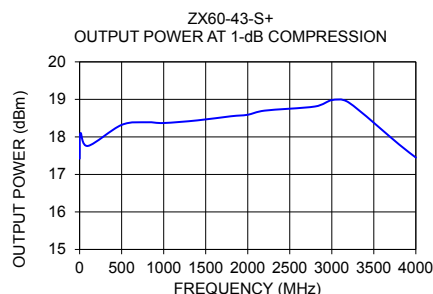
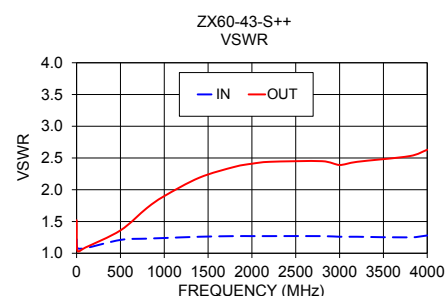
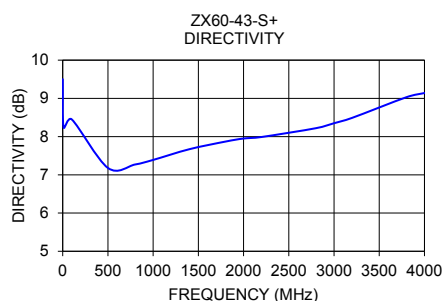
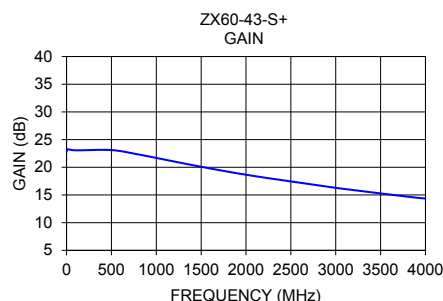
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FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	POWER OUT @ 1 dB COMPR. (dBm)	FREQUENCY (MHz)	IP3 (dBm)	NF (dB)
0.50	22.79	9.50	1.22	1.52	17.42	10	32.33	5.45
0.70	22.92	9.17	1.16	1.37	17.56	50	32.27	5.36
1.00	23.01	8.94	1.13	1.27	17.73	100	32.09	5.41
10.00	23.25	8.24	1.08	1.04	18.10	200	31.68	5.35
100.00	23.06	8.45	1.08	1.09	17.76	300	31.95	5.53
300.00	23.03	8.06	1.16	1.13	17.68	400	33.11	5.56
500.00	23.11	7.18	1.21	1.36	18.32	500	33.27	5.57
700.00	22.62	7.18	1.23	1.60	18.40	600	33.13	5.52
800.00	22.32	7.27	1.23	1.71	18.39	700	33.00	5.47
805.00	22.31	7.25	1.23	1.72	18.39	800	32.71	5.43
1000.00	21.69	7.39	1.24	1.90	18.37	1000	32.51	5.42
1200.00	21.04	7.52	1.25	2.06	18.48	1100	32.46	5.43
1400.00	20.40	7.67	1.26	2.19	18.44	1200	32.44	5.41
1600.00	19.79	7.77	1.26	2.28	18.52	1300	32.55	5.41
1800.00	19.20	7.87	1.27	2.36	18.55	1400	32.63	5.42
2000.00	18.66	7.95	1.27	2.41	18.59	1500	31.84	5.39
2200.00	18.15	7.99	1.27	2.44	18.70	1600	32.55	5.40
2400.00	17.66	8.05	1.28	2.45	18.50	1700	31.75	5.40
2600.00	17.20	8.11	1.27	2.46	18.67	1800	32.37	5.44
2800.00	16.75	8.22	1.27	2.45	18.81	2000	32.07	5.47
3000.00	16.29	8.35	1.26	2.39	18.98	2200	32.04	5.50
3200.00	15.88	8.49	1.26	2.44	18.92	2400	32.38	5.56
3400.00	15.47	8.62	1.25	2.45	18.55	2600	31.92	5.56
3600.00	15.07	8.84	1.25	2.48	18.12	2800	31.73	5.62
3800.00	14.69	9.03	1.25	2.53	17.80	3000	31.24	5.70
4000.00	14.35	9.14	1.28	2.63	17.45			



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