

Connectorized

# Amplifier

## ZX60-2534MA+

50Ω 0.5 to 2.5 GHz

### Features

- From 2.8V to 5V operation
- High directivity
- Wide bandwidth, 0.5 to 2.5 GHz
- Low noise figure, 2.6 dB typ.
- Output power, up to 18 dBm typ.
- Protected by US patent 6,790,049

### Applications

- Buffer amplifier
- Cellular
- PCN
- Lab
- Instrumentation
- Test equipment



CASE STYLE: GA955

Connectors	Model
SMA	ZX60-2534MA-S+

**+RoHS Compliant**

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

### Electrical Specifications at T<sub>AMB</sub> = 25°C

MODEL NO.	FREQ. (GHz) f <sub>L</sub> - f <sub>U</sub>	DC VOLTAGE @ Pin V+ (V)	GAIN over frequency in GHz Typ (dB)						MAXIMUM POWER (dBm) Output (1 dB Comp.) Typ. f <sub>L</sub> f <sub>U</sub>		DYNAMIC RANGE			VSWR (:1) Typ.		ACTIVE DIRECTIVITY (dB) Isolation-Gain Typ. f <sub>L</sub> f <sub>U</sub>		DC OPERATING CURRENT @ Pin V+ (mA) Typ. Max.	
			0.5	1.0	1.5	2.0	2.5	Min. at 2 GHz	NF (dB) Typ.	IP3 (dBm) Typ.	1GHz	1GHz	2GHz	In	Out	f <sub>L</sub>	f <sub>U</sub>	Typ.	Max.
			1GHz	1GHz	2GHz														
ZX60-2534MA+	0.5-2.5	5.0	37.5	43.5	43.0	41.0	39.0	38.0	19.0	17.0	2.2	16	18	1.6	1.6	28	16	170	190
		2.8	33.5	38.0	37.5	35.5	33.5	32.0	11.0	12.0	2.6	13	18	1.6	1.3	34	21	160	185

### Maximum Ratings

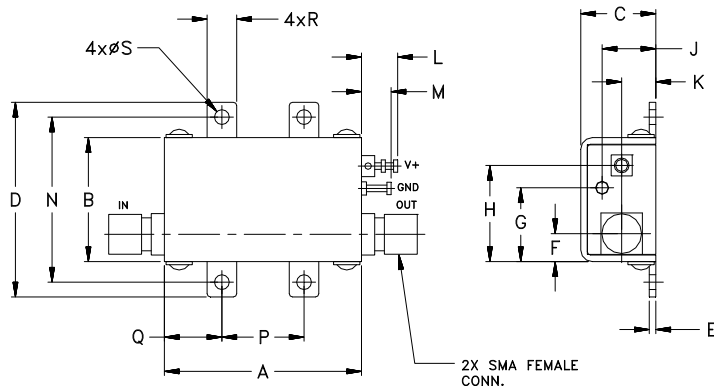
Operating Temperature	-40°C to 80°C case
Storage Temperature	-55°C to 100°C
DC Voltage	7V
Input Power (no damage)	-15dBm
Power Dissipation	0.5W

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



NOTE: When soldering the DC connections, caution must be used to avoid overheating the DC terminals. See Application Note [AN-40-10](#).

### Outline Drawing



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	wt.
1.20	.75	.46	1.18	.04	.17	.45	.59	.33	.21	.22	.18	1.00	.50	.35	.18	.106	grams
30.48	19.05	11.68	29.97	1.02	4.32	11.43	14.99	8.38	5.33	5.59	4.57	25.40	12.70	8.89	4.57	2.69	35.0

#### Notes

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ZX60-2534MA+  
URJ  
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# Typical Performance Data at 25°C

# ZX60-2534MA+

## V+ = 5.0V

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	POWER OUT @ 1dB COMPRESSION (dBm)	IP3 (dBm)	NF (dB)
500	38.64	37.49	2.78	1.59	18.90	22.42	2.91
550	39.99	30.55	2.59	1.47	19.23	21.49	2.86
600	40.93	29.95	2.41	1.36	19.09	19.75	2.85
650	41.61	34.75	2.27	1.27	19.16	18.9	2.70
700	42.10	28.32	2.14	1.20	19.33	18.54	2.75
800	42.71	23.14	1.94	1.13	19.29	17.28	2.39
900	43.16	30.62	1.81	1.15	19.33	16.96	2.34
1000	43.50	20.67	1.71	1.20	19.15	16.21	2.30
1100	43.71	27.26	1.62	1.24	18.93	15.46	2.06
1300	43.82	22.34	1.48	1.29	18.86	15.54	2.29
1400	43.67	16.21	1.41	1.29	18.65	15.19	2.20
1500	43.42	18.47	1.37	1.28	18.67	15.67	2.24
1600	43.06	20.52	1.31	1.25	18.48	15.94	2.25
1800	42.20	20.24	1.24	1.21	18.03	16.65	2.15
2000	41.30	20.68	1.18	1.16	18.11	17.83	2.00
2200	40.43	25.27	1.14	1.19	17.49	18.35	1.84
2300	40.02	17.35	1.12	1.23	17.24	18.65	2.05
2400	39.62	17.21	1.11	1.27	17.43	18.85	2.14
2450	39.42	16.77	1.11	1.30	17.07	18.99	2.07
2500	39.21	18.21	1.11	1.32	17.16	19.32	1.99

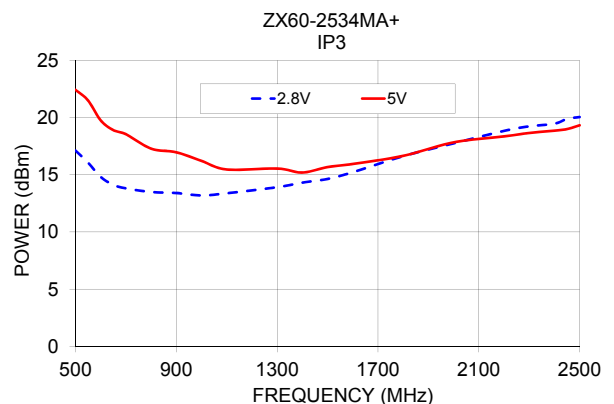
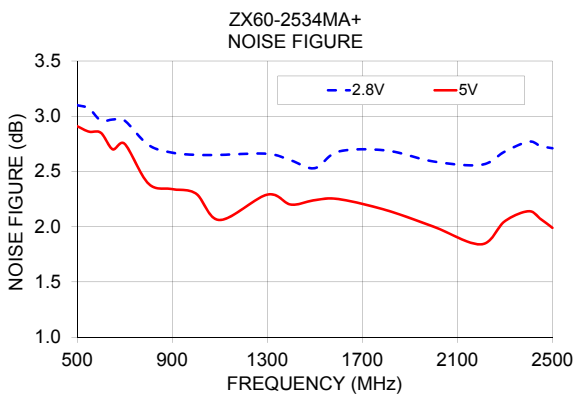
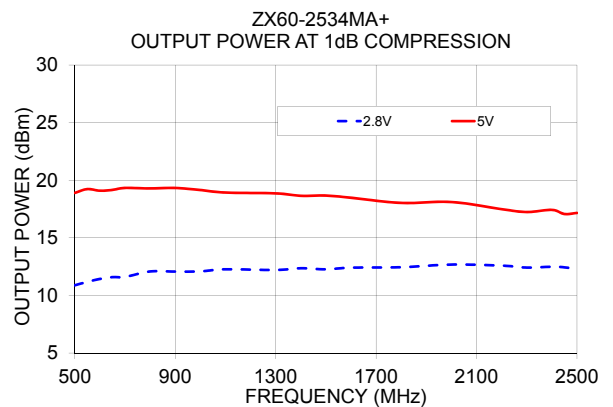
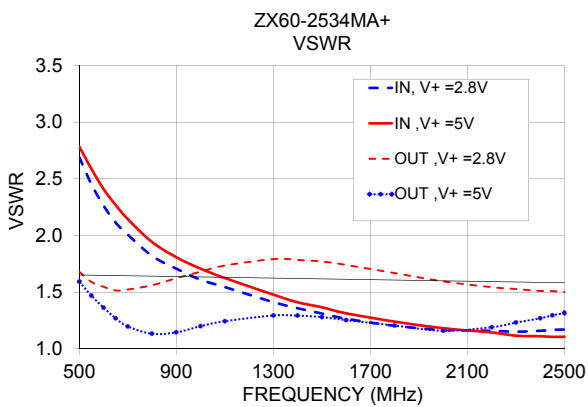
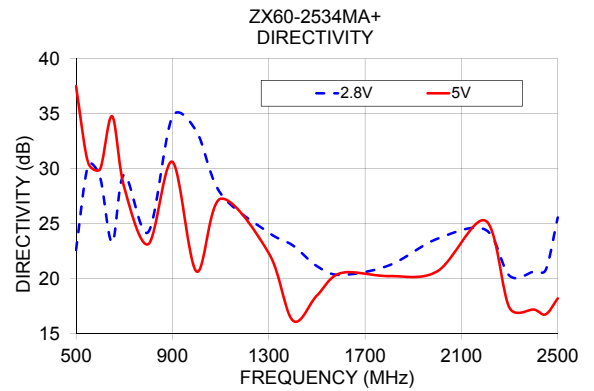
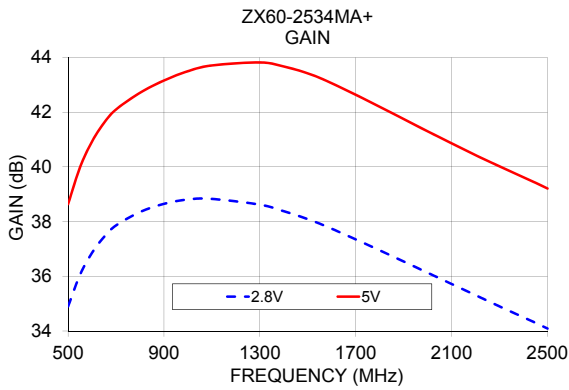
## V+ = 2.8V

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	POWER OUT @ 1dB COMPRESSION (dBm)	IP3 (dBm)	NF (dB)
500	34.90	22.62	2.69	1.68	10.88	17.11	3.10
550	36.06	30.26	2.45	1.59	11.18	16.05	3.07
600	36.86	29.20	2.26	1.55	11.43	14.81	2.96
650	37.44	23.29	2.11	1.51	11.59	14.12	2.97
700	37.86	29.44	2.01	1.52	11.61	13.81	2.96
800	38.35	24.24	1.82	1.56	12.08	13.49	2.74
900	38.65	34.71	1.71	1.62	12.07	13.4	2.67
1000	38.81	33.39	1.61	1.68	12.09	13.19	2.65
1100	38.83	27.76	1.54	1.73	12.27	13.38	2.65
1300	38.62	24.19	1.41	1.79	12.21	13.91	2.66
1400	38.38	23.03	1.36	1.78	12.36	14.31	2.60
1500	38.09	21.15	1.31	1.77	12.27	14.63	2.53
1600	37.74	20.35	1.27	1.74	12.41	15.22	2.68
1800	36.95	21.22	1.20	1.67	12.45	16.62	2.69
2000	36.13	23.63	1.17	1.60	12.68	17.74	2.59
2200	35.31	24.45	1.16	1.54	12.59	18.83	2.56
2300	34.90	20.27	1.15	1.53	12.42	19.23	2.68
2400	34.50	20.65	1.16	1.51	12.49	19.46	2.77
2450	34.30	20.80	1.17	1.51	12.44	19.88	2.73
2500	34.09	25.56	1.17	1.50	12.28	20.04	2.71

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