

Coaxial

# Low Noise Amplifier

## ZX60-542LN+

50Ω 4400 to 5400 MHz

### Features

- low noise figure, 1.9 dB typ.
- output power, up to 10 dBm typ.
- reverse polarity protection

### Applications

- front-end amplifier
- Satellite TV
- public safety
- astronomy
- weather
- defense & radar
- instrumentation
- test equipment



CASE STYLE: GA955

Connectors	Model
SMA	ZX60-542LN-S+

### +RoHS Compliant

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

### Electrical Specifications $T_{AMB}=25^{\circ}C$

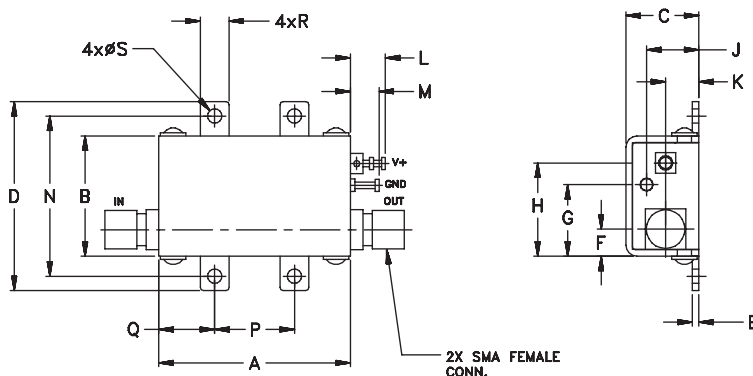
MODEL NO.	FREQUENCY (MHz)	DC VOLTS (V)	NOISE FIGURE (dB)		GAIN (dB)				MAXIMUM POWER (dBm)			3rd ORDER INTERCEPT POINT AT OUTPUT (dBm)	VSWR (:1) Typ.		DC OPERATING CURRENT @ Pin V+ (mA)	
			Typ.	Max.	Typ.	Min.	Flatness		Output (1 dB Compr.)		Input (no damage)		In	Out	Typ.	Max.
							Typ.	Max.	Typ.	Min.						
ZX60-542LN+	4400-5400	12.0	1.9	3.0	24	22	±0.3	±0.8	10	8	+13	23	1.5	1.5	60	80

### Maximum Ratings

Operating Temperature	-40°C to 85°C case
Storage Temperature	-55°C to 100°C
DC Voltage	+13V
Power	0.96W

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	S	wt
1.20	.75	.46	1.18	.04	.17	.45	.59	.33	.21	.22	.18	1.00	.50	.35	.18	.09	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	2.29	35.00

### Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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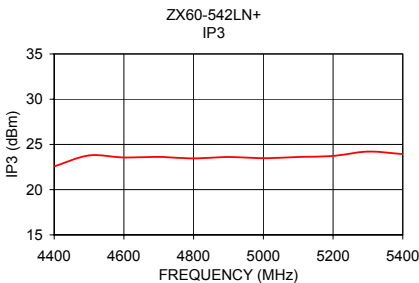
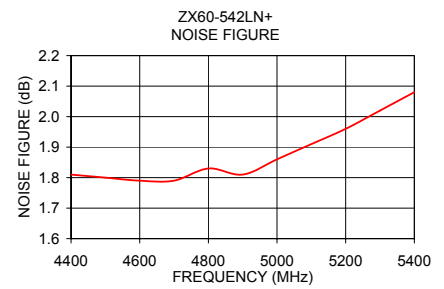
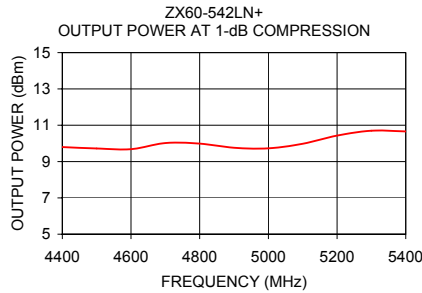
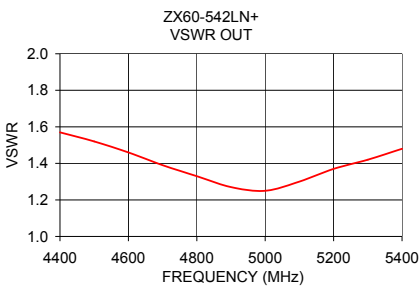
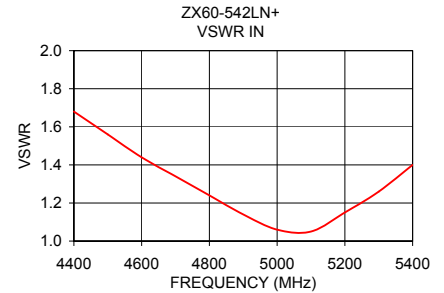
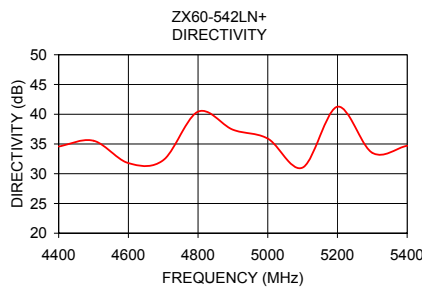
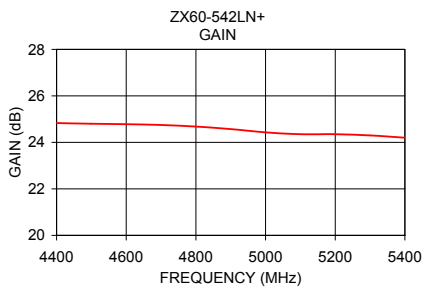
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REV. A  
M151107  
ZX60-542LN+  
ED-13494/4  
MR/MM/CP  
161031  
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# Typical Performance Data/Curves

# ZX60-542LN+

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	NOISE FIGURE (dB)	POUT at 1dB COMPR. (dBm)	IP3 (dBm)
4400.0	24.83	34.58	1.68	1.57	1.81	9.80	22.57
4500.0	24.80	35.55	1.56	1.52	1.80	9.72	23.78
4600.0	24.78	31.78	1.44	1.46	1.79	9.68	23.55
4700.0	24.75	32.27	1.34	1.39	1.79	10.02	23.62
4800.0	24.68	40.43	1.24	1.33	1.83	9.99	23.45
4900.0	24.57	37.39	1.14	1.27	1.81	9.76	23.61
5000.0	24.43	35.91	1.06	1.25	1.86	9.73	23.48
5100.0	24.35	31.03	1.05	1.30	1.91	9.98	23.61
5200.0	24.35	41.27	1.15	1.37	1.96	10.43	23.73
5300.0	24.30	33.52	1.26	1.42	2.02	10.70	24.21
5400.0	24.20	34.70	1.40	1.48	2.08	10.66	23.93



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