

Wideband Amplifier**ZX60-ED13828/5****Important Note**

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



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CASE STYLE : S860

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	40		1300	MHz
Gain		14.0		dB
Output Power @ 1dB Compression		24.5		dBm
Noise Figure		3.5		dB
IP3*		38		dBm
VSWR	IN	1.50		(:1)
	OUT	1.40		(:1)
DC Power	Voltage	7		V
	Current		350	mA

*Two tones, spaced 1MHz apart, 15 dBm/tone at output

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Input Power	13 dBm
DC Voltage	8V

Wideband Amplifier

ZX60-ED13828/5

Typical Performance Data

FREQ. (MHz)	GAIN (dB) 7V	DIRECTIVITY (dB) 7V	VSWR (:1)		NOISE FIGURE (dB) 7V	POUT @ 1 dB COMPRESSION (dBm) 7V	OUTPUT IP3 (dBm) 7V
			IN 7V	OUT 7V			
40.0	15.29	9.50	1.39	1.75	4.40	25.25	37.50
50.0	15.17	9.40	1.38	1.72	4.23	25.48	37.94
60.0	15.08	9.20	1.37	1.70	3.63	25.51	38.43
70.0	15.02	9.01	1.37	1.68	3.85	25.59	38.52
130.0	14.70	9.01	1.38	1.67	3.65	25.60	39.03
150.0	14.68	9.02	1.38	1.67	3.59	25.80	39.52
170.0	14.50	9.28	1.39	1.58	3.54	25.81	38.80
190.0	14.32	9.45	1.41	1.53	3.51	25.85	39.18
200.0	14.23	9.67	1.45	1.48	3.48	25.94	38.95
220.0	14.29	9.47	1.45	1.48	3.43	25.97	38.75
250.0	14.34	9.38	1.46	1.48	3.41	26.00	38.73
300.0	14.43	9.22	1.49	1.50	3.36	26.01	38.83
350.0	14.48	9.03	1.50	1.48	3.54	26.03	38.80
400.0	14.55	8.86	1.51	1.46	3.43	26.05	40.80
450.0	14.59	8.64	1.50	1.38	3.43	25.74	40.74
500.0	14.63	8.52	1.49	1.36	3.41	25.43	40.80
550.0	14.65	8.37	1.47	1.27	3.39	25.22	40.77
600.0	14.67	8.24	1.45	1.24	3.36	25.08	40.73
650.0	14.66	8.18	1.43	1.18	3.40	24.98	40.70
700.0	14.63	8.12	1.42	1.15	3.42	24.92	40.66
750.0	14.55	8.16	1.41	1.10	3.45	24.89	40.67
800.0	14.47	8.22	1.40	1.08	3.49	24.87	40.71
900.0	14.31	8.38	1.41	1.07	3.49	25.03	40.65
1000.0	14.11	8.31	1.44	1.12	3.47	24.88	40.45
1100.0	13.86	8.47	1.52	1.19	3.61	24.27	40.11
1200.0	13.57	8.67	1.63	1.23	3.64	23.85	34.89
1300.0	13.22	8.98	1.71	1.24	3.73	23.43	33.75



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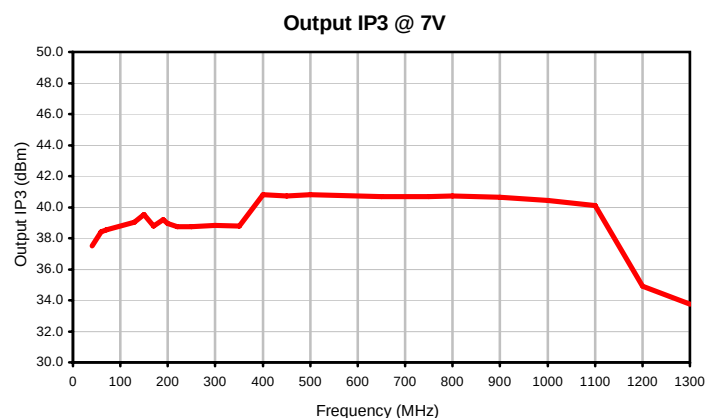
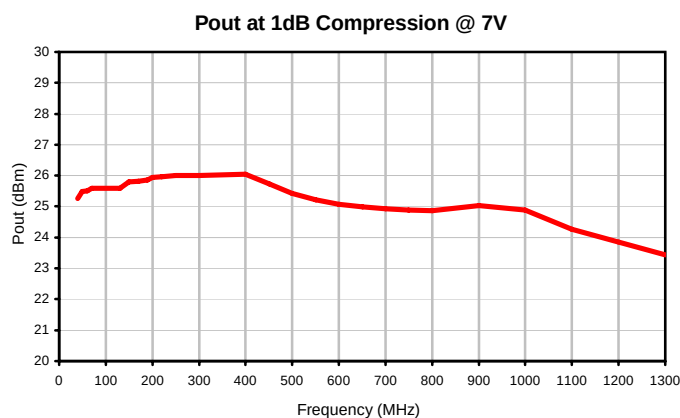
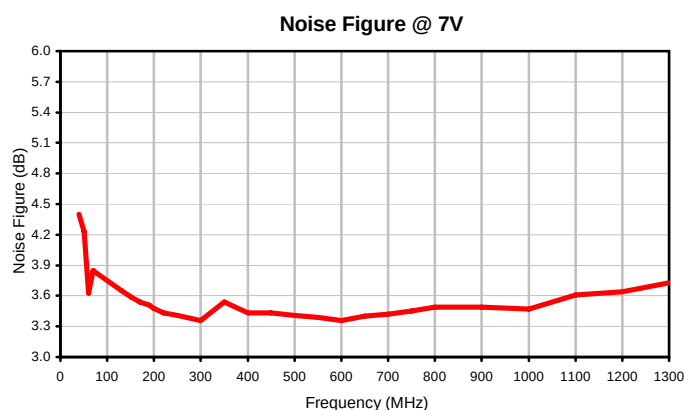
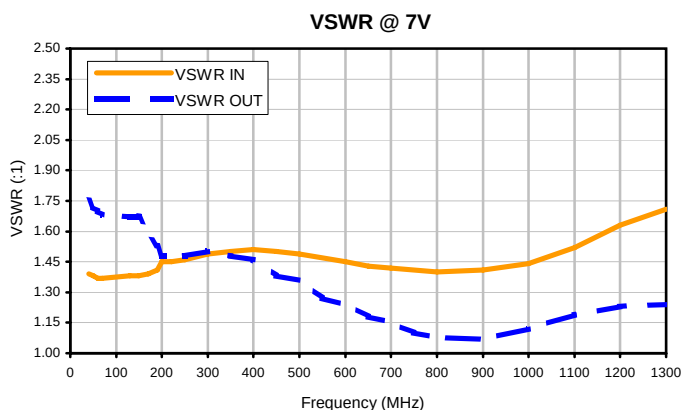
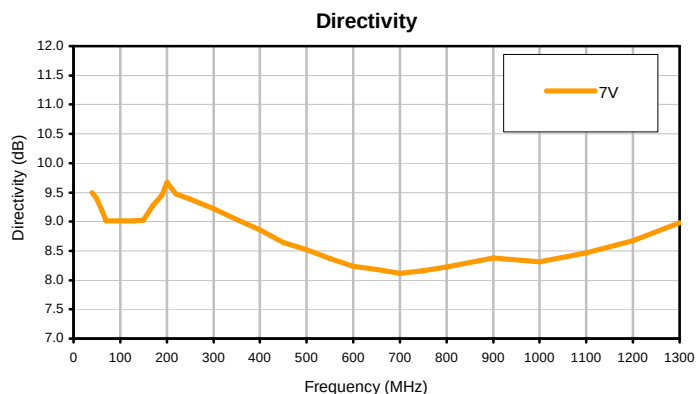
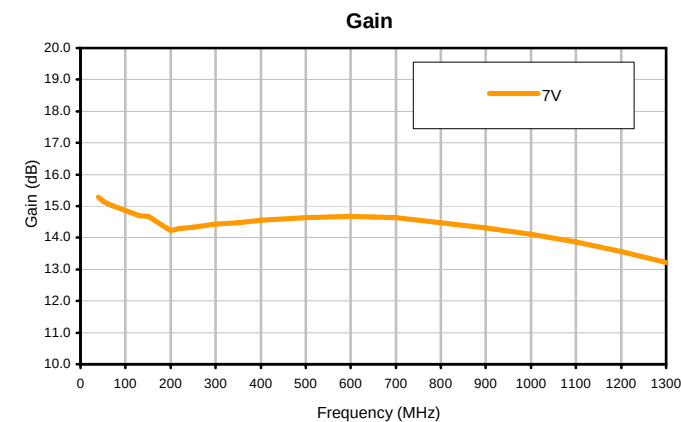
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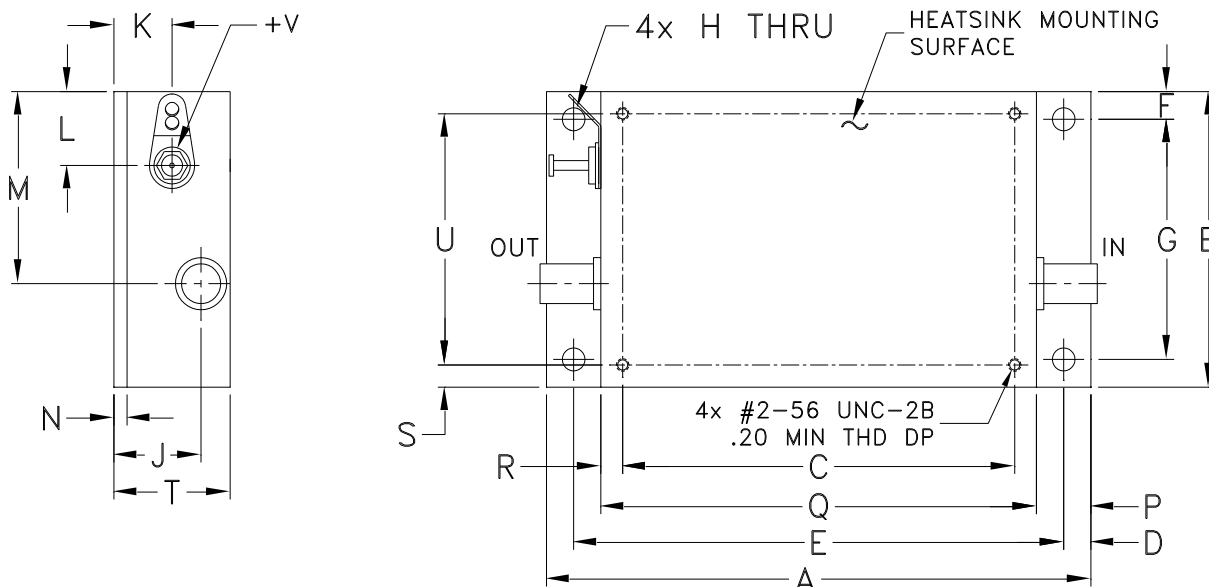
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Typical Performance Curves



Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
S860	3.75 (95.25)	2.00 (50.80)	2.700 (68.58)	.19 (4.83)	3.375 (85.73)	.19 (4.83)	1.625 (41.28)	.144 (3.66)	.54 (13.72)	.40 (10.16)	.50 (12.70)	1.30 (33.02)	.10 (2.54)

CASE#	P	Q	R	S	T	U	WT. GRAMS
S860	.38 (9.65)	3.00 (76.20)	.15 (3.81)	.15 (3.81)	.84 (21.34)	1.700 (43.18)	150.0

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:

For RoHS Case Styles:

Clear chemical conversion coating, non-chrome or trivalent chrome based.



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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-40° to 85°C	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I