

Engineering Development Model

Push-Pull

Wideband Amplifier

ZHL-ED13828/8

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.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : S860

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	5		200	MHz
Gain		15.5		dB
Output Power @ 1dB Compression		25		dBm
Noise Figure		3.7		dB
IP3		43		dBm
VSWR	IN	1.20		(:1)
	OUT	1.40		(:1)
DC Power	Voltage	6		V
	Current		360	mA

MAXIMUM RATINGS	
Operating Temperature	-40°C to 65°C Case
Storage Temperature	-55°C to 100°C
DC voltage	6.5V
Input Power	24 dBm

Permanent damage may occur if any of these limits are exceeded



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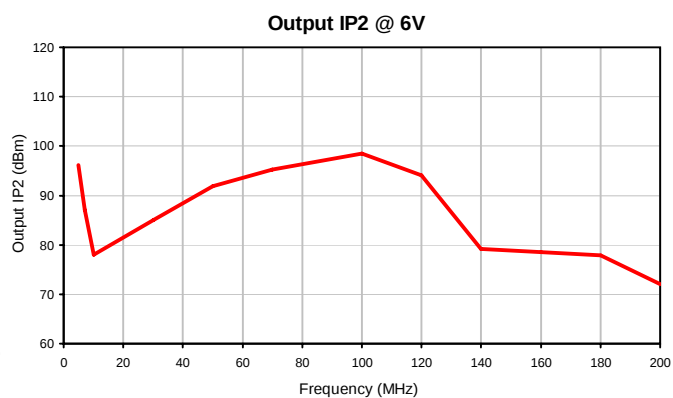
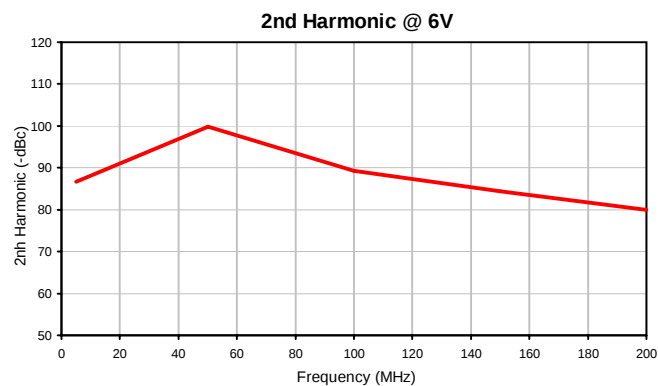
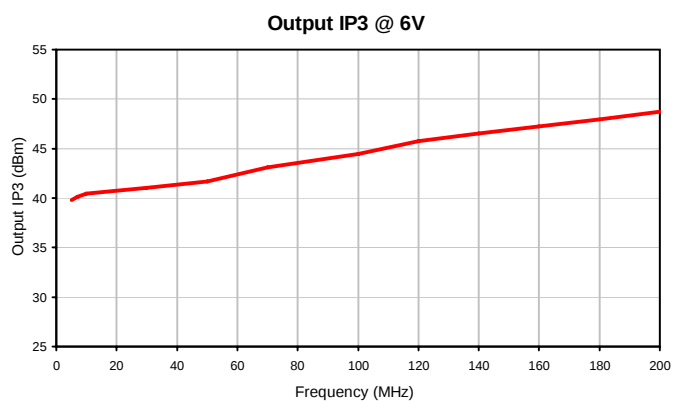
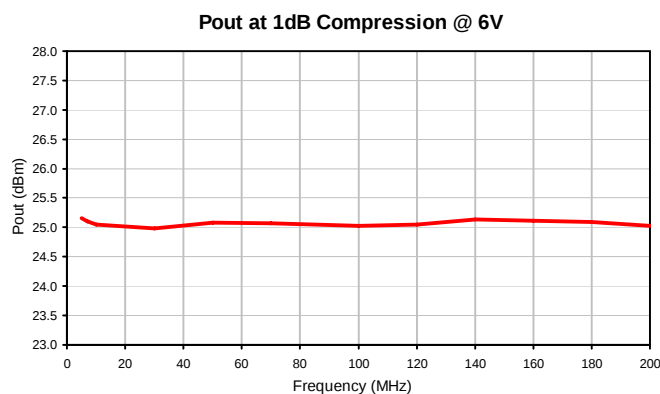
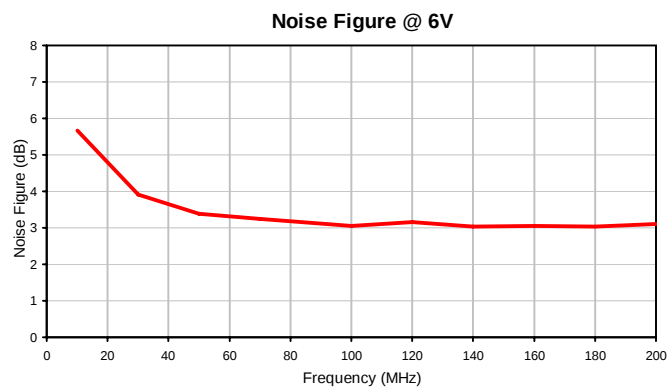
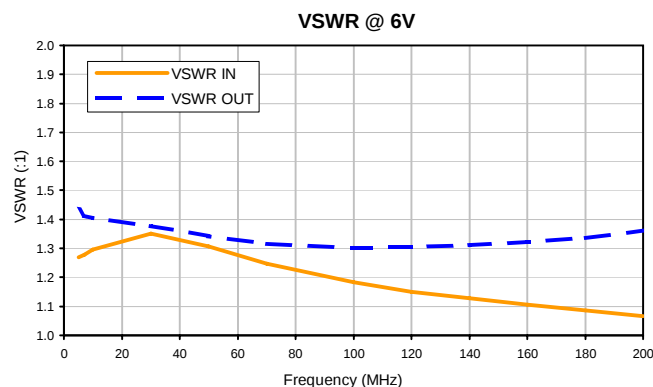
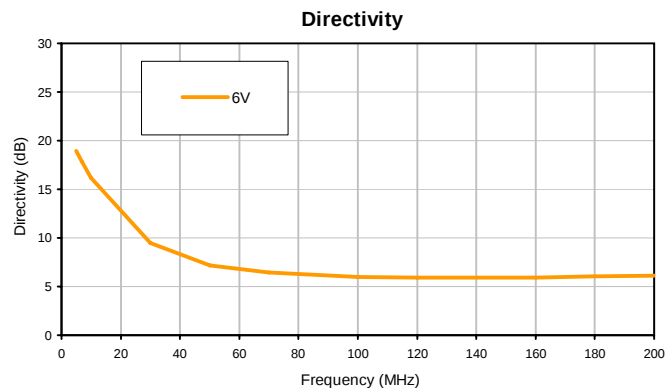
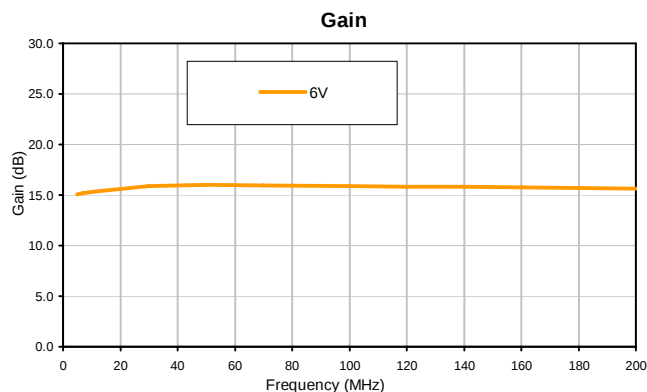
IF/RF MICROWAVE COMPONENTS

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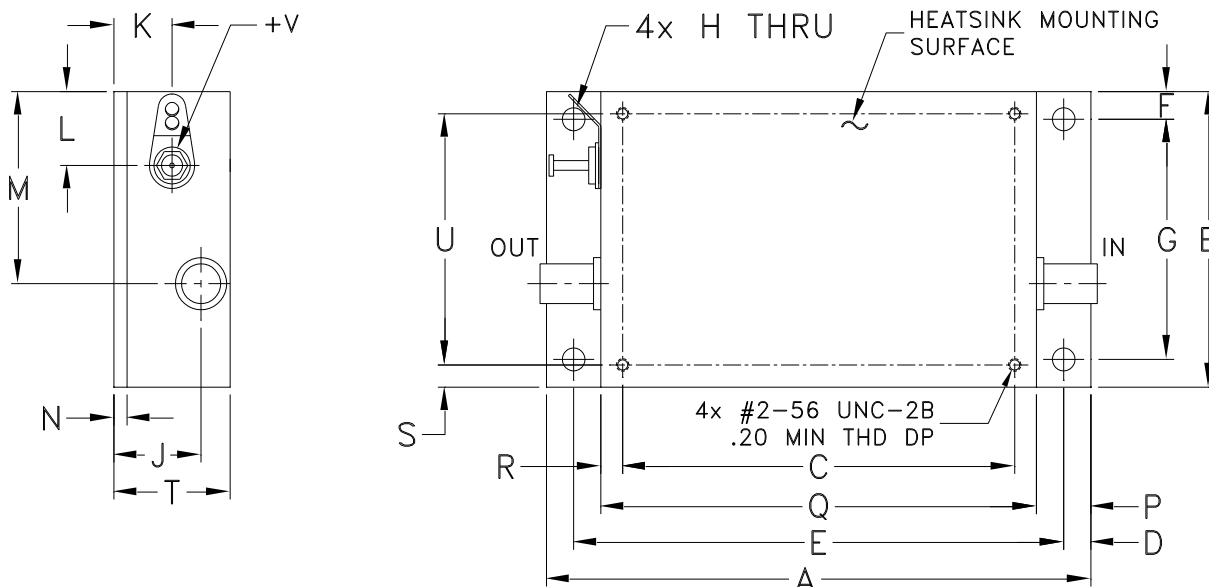
Typical Performance Data

FREQ. (MHz)	GAIN (dB) 6V	DIRECTIVITY (dB) 6V	VSWR (:1)		NOISE FIGURE (dB) 6V	POUT @ 1 dB COMPRESSION (dBm) 6V	OUTPUT IP2 (dBm) 6V	OUTPUT IP3 (dBm) 6V	FREQ. (MHz)	2nd HARMONIC (-dBc) 6V
5.0	15.08	18.98	1.27	1.43	--	25.16	96.22	39.82	5.0	86.65
7.0	15.17	17.83	1.28	1.41	--	25.11	87.14	40.13	50.0	99.82
10.0	15.29	16.18	1.29	1.40	5.67	25.05	78.05	40.43	100.0	89.31
30.0	15.89	9.49	1.35	1.38	3.91	24.98	84.99	41.05	150.0	84.44
50.0	16.01	7.16	1.31	1.34	3.38	25.08	91.92	41.66	200.0	79.97
70.0	15.98	6.42	1.25	1.32	3.25	25.07	95.31	43.11		
100.0	15.91	6.01	1.18	1.30	3.05	25.03	98.43	44.44		
120.0	15.85	5.95	1.15	1.31	3.15	25.05	94.08	45.74		
140.0	15.81	5.90	1.13	1.31	3.04	25.13	79.14	46.54		
160.0	15.75	5.94	1.11	1.32	3.06	25.11	78.49	47.235		
180.0	15.70	6.02	1.09	1.34	3.03	25.09	77.83	47.93		
200.0	15.63	6.09	1.07	1.36	3.11	25.03	72.05	48.70		

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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