

Engineering Development Model

Push-Pull

Wideband Amplifier

ZHL-ED11699C/4

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 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	40		1200	MHz
Gain		13		dB
Output Power @ 1dB Compression		24		dBm
Noise Figure		3.5		dB
IP3 ⁽¹⁾		41		dBm
VSWR	IN	1.40		(:1)
	OUT	1.40		(:1)
DC Power	Voltage	6		V
	Current		360	mA

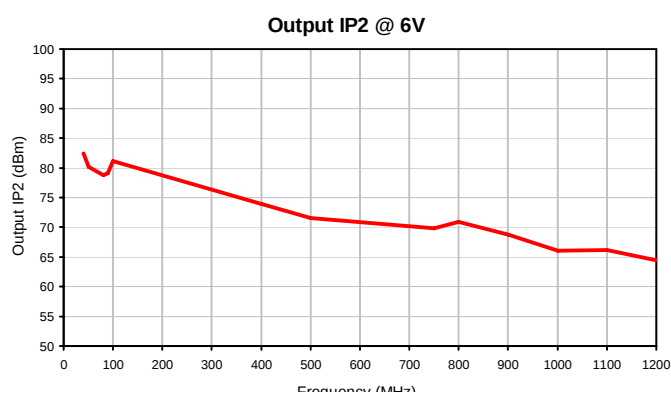
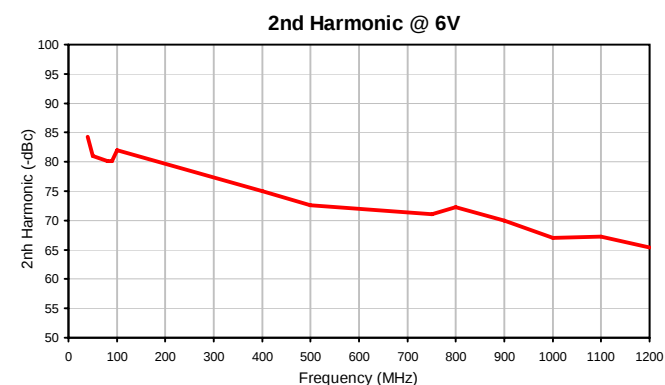
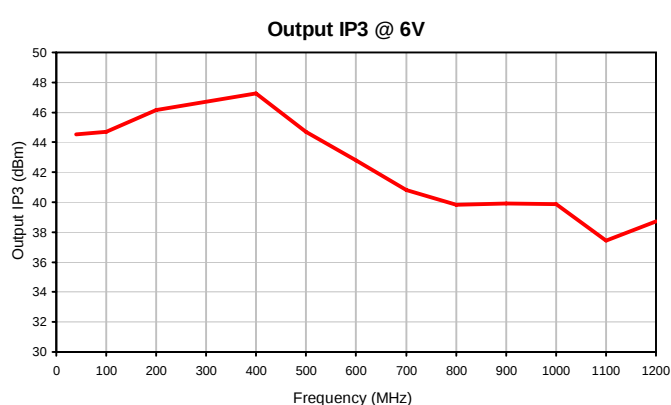
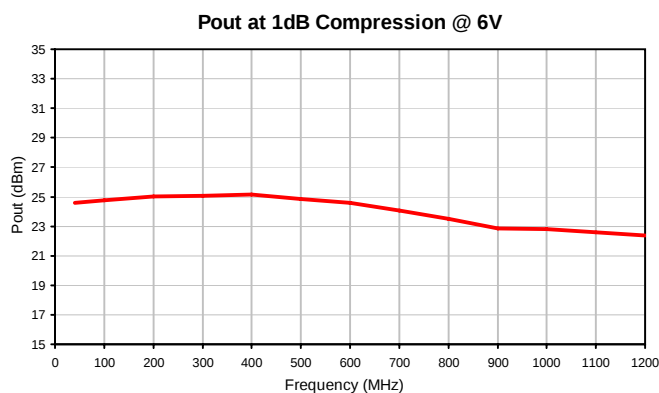
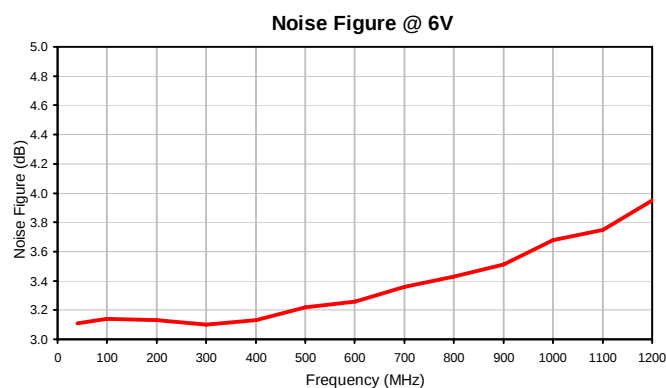
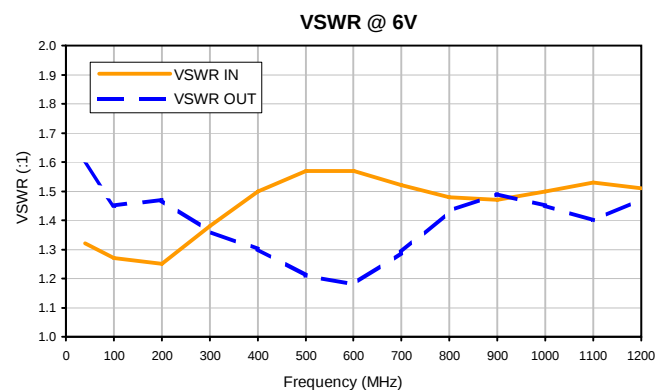
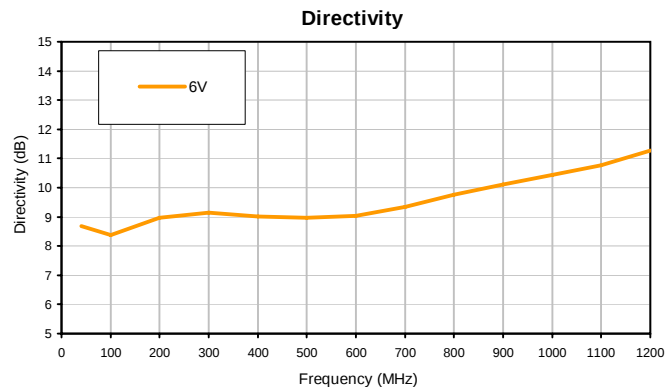
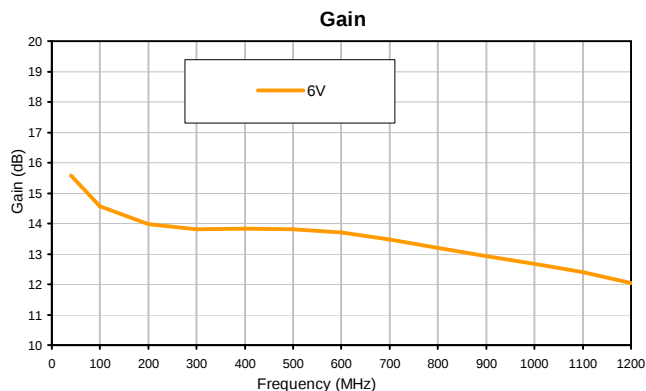
⁽¹⁾Two tones, spaced 1 MHz apart, 5 dBm/tone at output.

MAXIMUM RATINGS	
Operating Temperature	-40°C to 65°C Case
Storage Temperature	-55°C to 100°C
Input RF Power (No Damage)	24 dBm

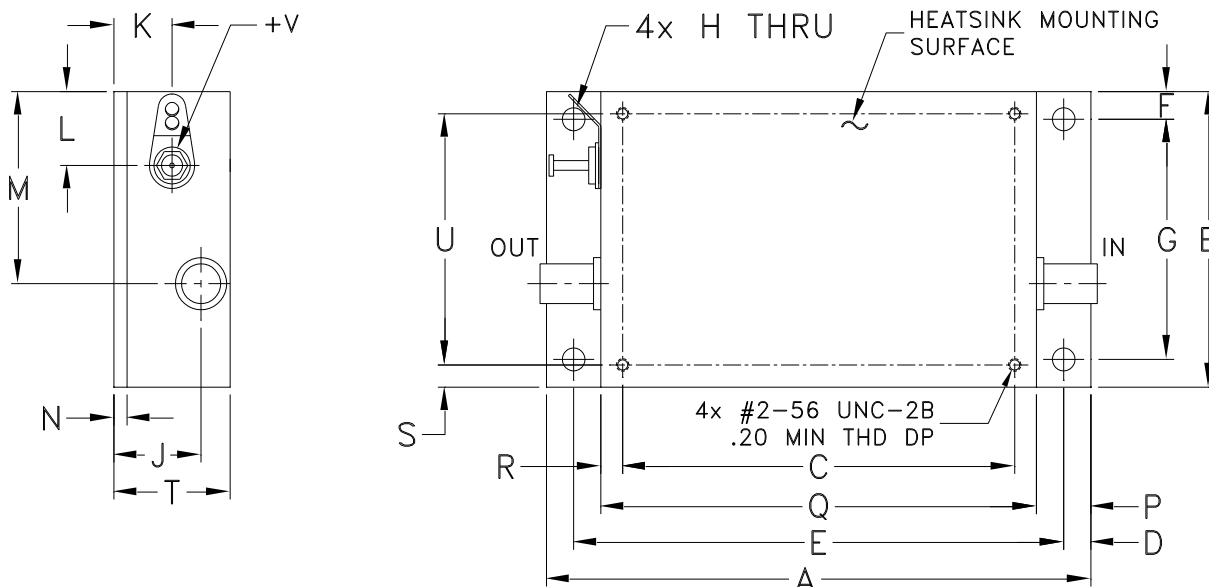
Typical Performance Data

FREQ. (MHz)	GAIN (dB) 6V	DIRECTIVITY (dB) 6V	VSWR (:1)		NOISE FIGURE (dB) 6V	POUT @ 1 dB COMPRESSION (dBm) 6V	OUTPUT IP3 (dBm) 6V	FREQ. (MHz)	2nd HARMONIC (-dBc) 6V	OUTPUT IP2 (dBm) 6V
			IN 6V	OUT 6V						
40.0	15.58	8.69	1.32	1.59	3.11	24.59	44.54	40.0	84.27	82.41
100.0	14.57	8.37	1.27	1.45	3.14	24.77	44.70	50.0	80.98	80.22
200.0	13.98	8.98	1.25	1.47	3.13	25.01	46.15	80.0	80.17	78.79
300.0	13.82	9.15	1.38	1.36	3.10	25.06	46.70	90.0	80.15	79.08
400.0	13.83	9.02	1.50	1.30	3.13	25.15	47.26	100.0	82.03	81.09
500.0	13.80	8.97	1.57	1.21	3.22	24.83	44.71	400.0	75.05	73.93
600.0	13.70	9.04	1.57	1.18	3.26	24.57	42.76	500.0	72.63	71.51
700.0	13.48	9.34	1.52	1.29	3.36	24.05	40.81	750.0	71.06	69.84
800.0	13.20	9.76	1.48	1.43	3.43	23.52	39.82	800.0	72.22	70.88
900.0	12.92	10.12	1.47	1.49	3.51	22.86	39.91	900.0	69.98	68.7
1000.0	12.67	10.43	1.50	1.45	3.68	22.83	39.88	1000.0	67.04	66.09
1100.0	12.39	10.77	1.53	1.40	3.75	22.61	37.42	1100.0	67.20	66.19
1200.0	12.05	11.27	1.51	1.47	3.95	22.36	38.70	1200.0	65.43	64.41

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.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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