

Push Pull

Wideband Amplifier

ZHL-ED13828/6

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 : S32

ELECTRICAL SPECIFICATIONS 75Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	40		1300	MHz
Gain		14.25		dB
Output Power @ 1dB Compression		24		dBm
Noise Figure		3.5		dB
IP3		43		dBm
VSWR	IN	1.50		(:1)
	OUT	1.70		(:1)
DC Power	Voltage	6		V
	Current		350	mA

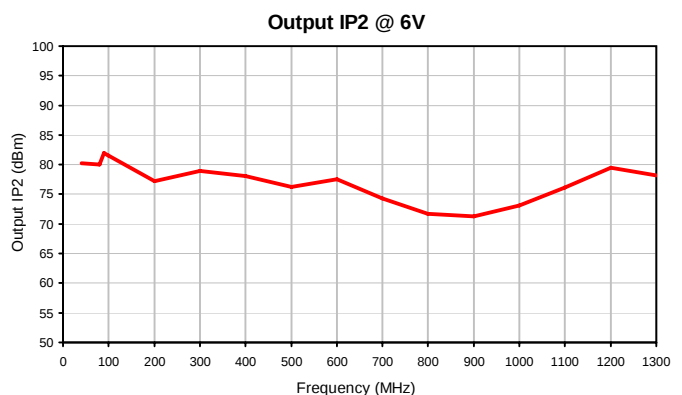
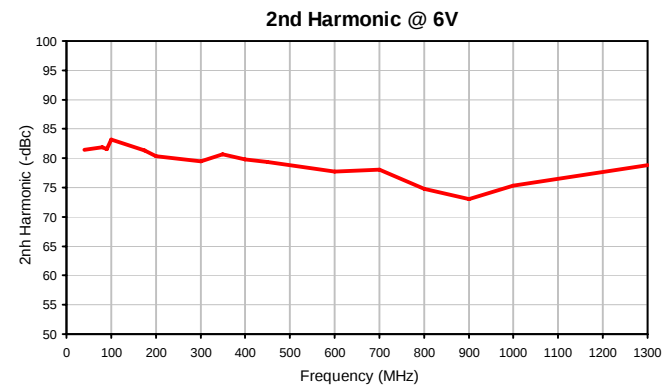
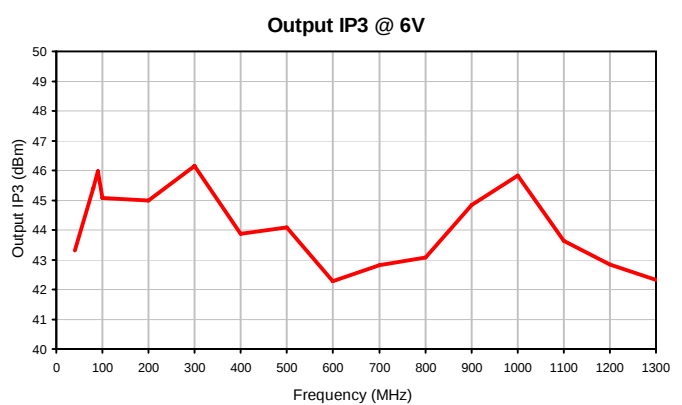
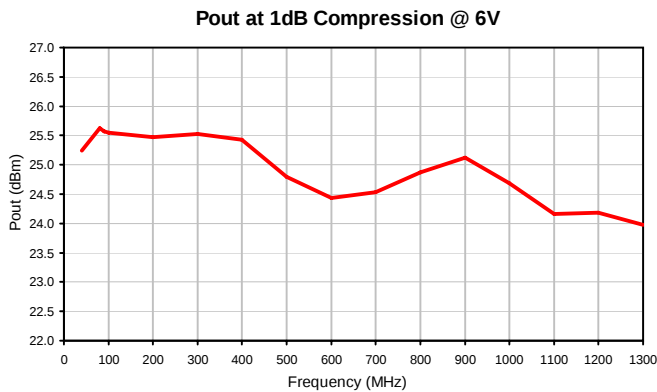
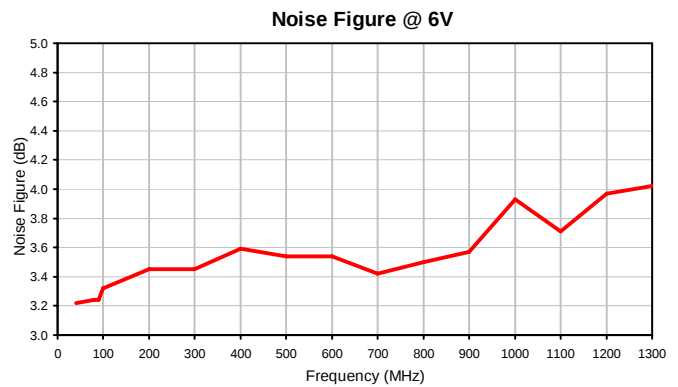
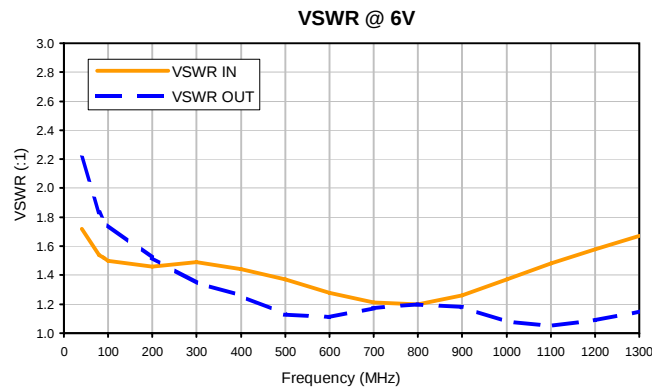
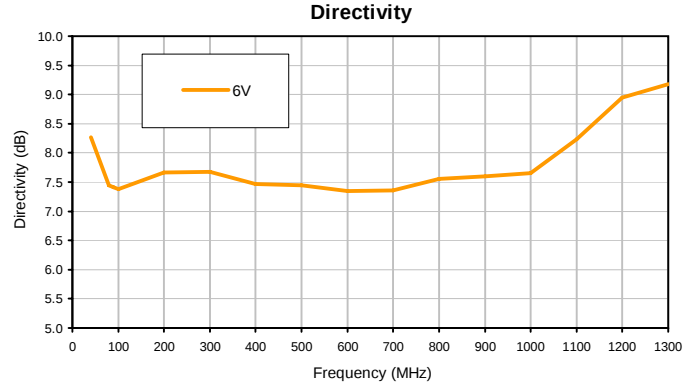
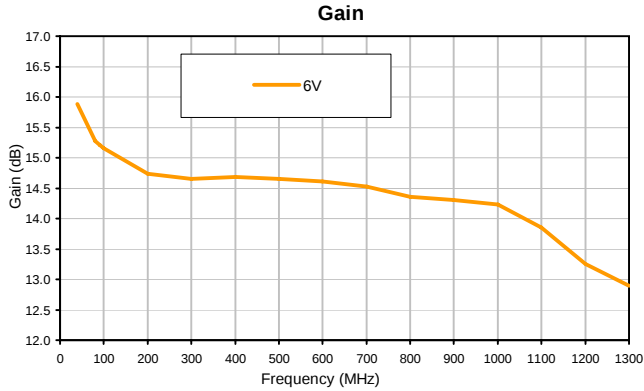
MAXIMUM RATINGS	
Operating Temperature	-40°C to +85°C Case
Storage Temperature	-55°C to +100°C
DC Voltage	7V
Input RF Power (No damage)	+15dBm

Permanent damage may occur if any of these limits are exceeded

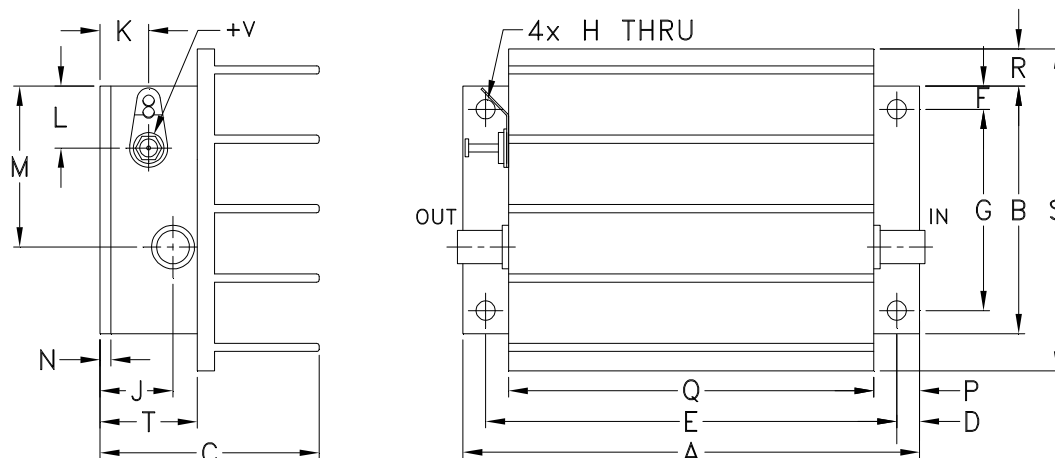
Typical Performance Data

FREQ.	GAIN	DIRECTIVITY	VSWR (:1)		NOISE FIGURE	POUT @ 1 dB COMPRESSION	OUTPUT IP2	OUTPUT IP3	FREQ.	2nd HARMONIC
(MHz)	(dB) 6V	(dB) 6V	IN 6V	OUT 6V	(dB) 6V	(dBm) 6V	(dBm) 6V	(dBm) 6V	(MHz)	(-dBc) 6V
40.0	15.88	8.27	1.72	2.21	3.22	25.24	80.28	43.32	40.0	81.43
80.0	15.27	7.45	1.54	1.83	3.24	25.62	80.04	45.43	80.0	81.93
90.0	15.21	7.41	1.52	1.79	3.24	25.57	81.94	45.97	90.0	81.59
100.0	15.16	7.38	1.50	1.75	3.32	25.55	81.52	45.07	100.0	83.19
200.0	14.74	7.66	1.46	1.52	3.45	25.47	77.20	44.98	175.0	81.37
300.0	14.65	7.68	1.49	1.35	3.45	25.53	78.91	46.16	200.0	80.33
400.0	14.68	7.47	1.44	1.26	3.59	25.43	78.08	43.88	300.0	79.51
500.0	14.65	7.44	1.37	1.13	3.54	24.79	76.20	44.09	350.0	80.73
600.0	14.61	7.35	1.28	1.11	3.54	24.43	77.54	42.28	400.0	79.85
700.0	14.53	7.36	1.21	1.17	3.42	24.53	74.25	42.81	450.0	79.42
800.0	14.36	7.55	1.20	1.20	3.50	24.87	71.67	43.08	600.0	77.73
900.0	14.3	7.60	1.26	1.18	3.57	25.12	71.28	44.83	700.0	78.02
1000.0	14.23	7.65	1.37	1.08	3.93	24.69	73.16	45.83	800.0	74.80
1100.0	13.85	8.23	1.48	1.05	3.71	24.16	76.08	43.63	900.0	73.08
1200.0	13.25	8.95	1.58	1.09	3.97	24.18	79.52	42.83	1000.0	75.31
1300.0	12.89	9.18	1.67	1.15	4.02	23.98	78.14	42.33	1300.0	78.87

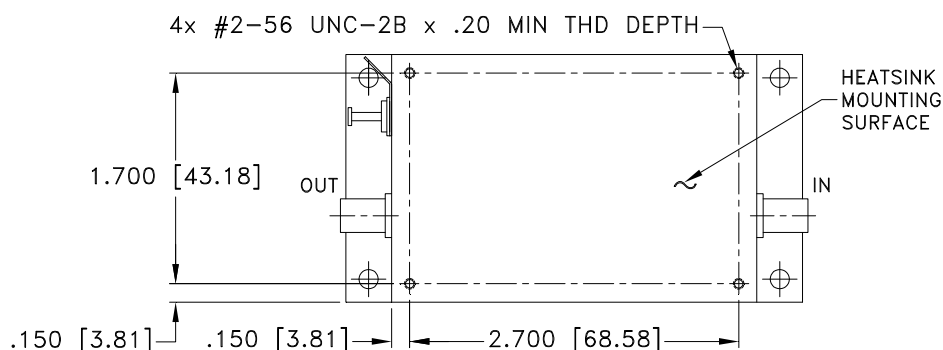
Typical Performance Curves



Outline Dimensions



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
S32	3.75 (95.25)	2.00 (50.80)	1.80 (45.72)	.19 (4.83)	3.375 (85.73)	.19 (4.83)	1.625 (41.28)	.144 (3.66)	.50 (12.70)	.40 (10.16)	.50 (12.70)	1.30 (33.02)	.10 (2.54)

CASE#	P	Q	R	S	T	WT. GRAMS	WT. WITHOUT HEATSINK GRAMS
S32	.38 (9.65)	3.00 (76.20)	.30 (7.62)	2.60 (66.04)	.80 (20.32)	220.0	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.
- Heat sink finish: Black anodize.



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



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS