Engineering Development Model

Amplifer ZHL-ED12883/1

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 50Ω @ +25°C				
Parameter	**Min.**	**Typ.**	**Max.**	**Units**
Frequency	10		550	MHz
Gain		11		dB
Output Power @1 dB compr.		29.00		dB
Noise Figure		4.0		dB
IP3		46.0		dBm
VSWR				
IN		1.77		(:1)
OUT		1.40		(:1)
DC Power				
Voltage		12.0		V
Current		525.0		mA

MAXIMUM RATINGS	
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C

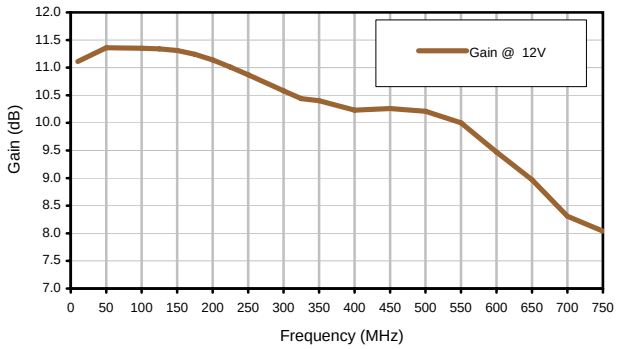
High Power Amplifier ZHL-ED12883/1

Typical Performance Data

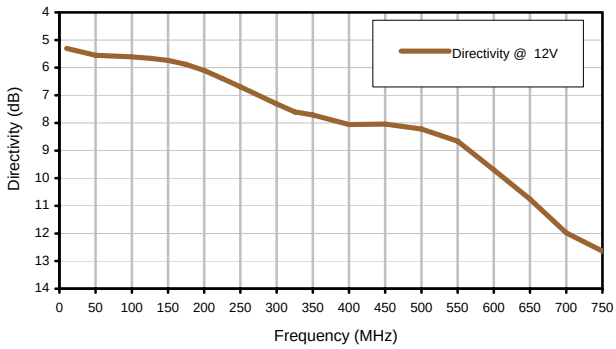
FREQUENCY (MHz)	GAIN (dB) 12V	DIRECTIVITY (dB) 12V	VSWR IN (:1) 12V	VSWR OUT (:1) 12V	NOISE FIGURE (dB) 12V	Pout at 1dB Comp. (dBm) 12V	Output IP3 (dBm) 12V
10.0	11.11	5.30	1.76	1.93	10.29	29.02	47.22
50.0	11.36	5.55	1.33	1.60	3.52	28.97	45.85
100.0	11.35	5.61	1.17	1.38	3.06	29.14	46.11
125.0	11.34	5.66	1.15	1.25	3.10	29.46	48.24
150.0	11.31	5.74	1.22	1.14	3.11	29.61	45.37
175.0	11.24	5.88	1.35	1.12	3.10	29.94	47.25
200.0	11.14	6.10	1.51	1.21	3.20	30.09	47.51
225.0	11.01	6.39	1.68	1.33	3.31	30.26	47.78
250.0	10.87	6.69	1.86	1.46	3.42	30.27	47.43
300.0	10.58	7.31	2.16	1.67	3.64	30.18	47.43
325.0	10.44	7.60	2.25	1.73	3.72	30.09	47.73
350.0	10.40	7.71	2.30	1.74	3.80	30.22	48.16
400.0	10.23	8.06	2.26	1.64	4.02	29.77	47.67
450.0	10.26	8.04	2.14	1.41	4.19	29.26	45.91
500.0	10.21	8.22	2.06	1.13	4.37	28.82	46.29
550.0	10.00	8.66	2.18	1.27	4.53	28.61	45.89
600.0	9.47	9.70	2.50	1.67	4.64	17.86	44.33
650.0	8.97	10.76	2.83	2.10	4.76	17.31	46.16
700.0	8.31	11.98	2.99	2.45	4.81	18.69	45.44
750.0	8.04	12.64	2.90	2.63	4.93	16.77	43.70

Typical Performance Curves

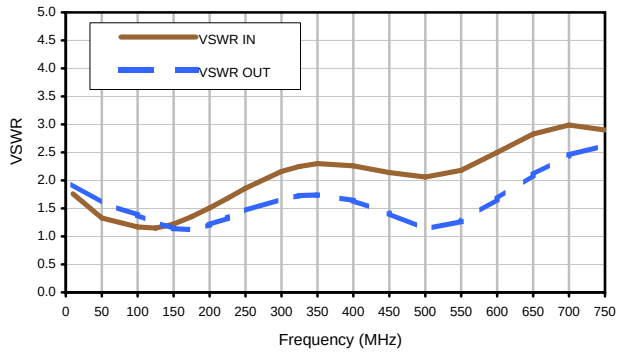
Gain



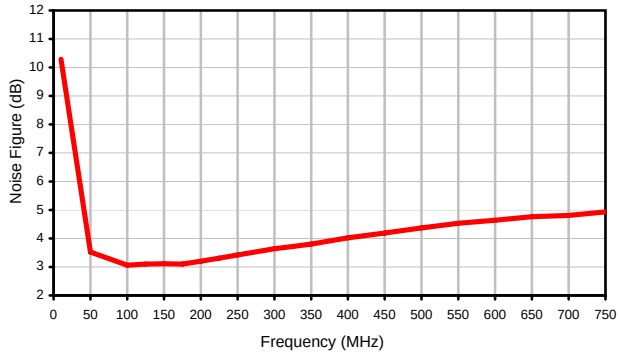
Directivity



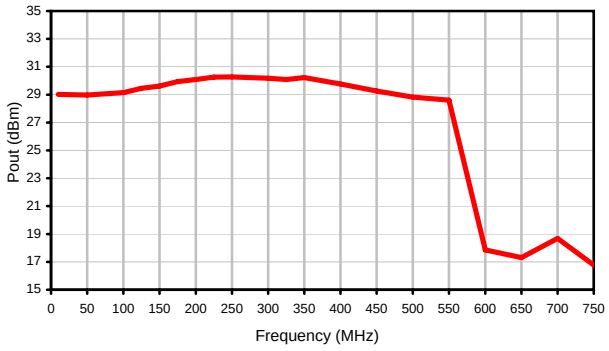
VSWR @ 12V



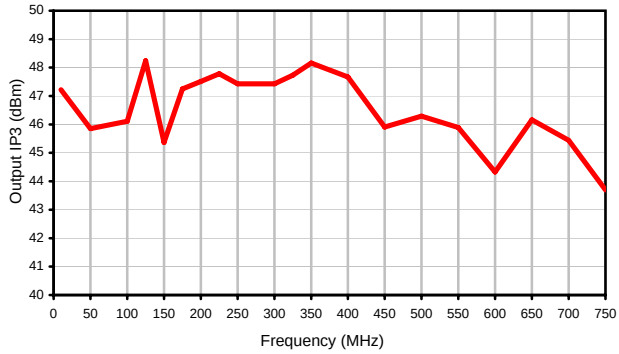
Noise Figure @ 12V



Pout at 1dB Compression @ 12V



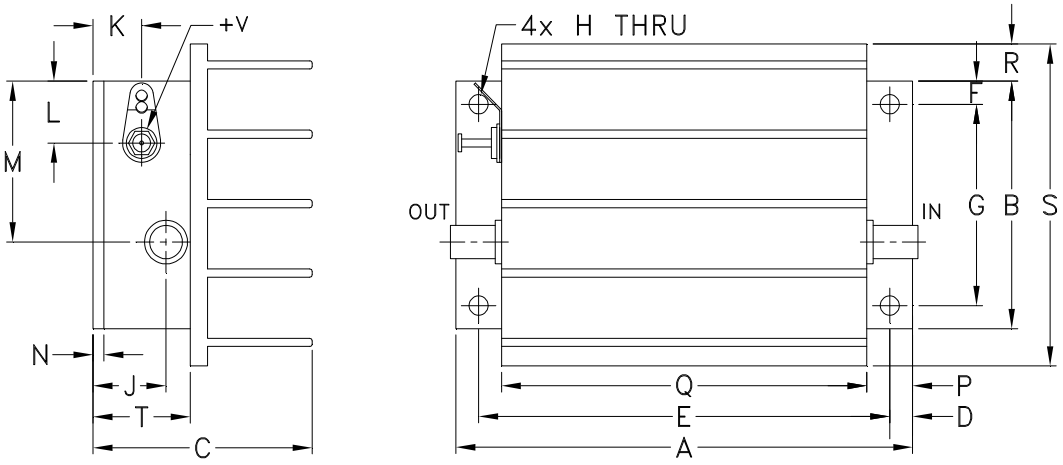
Output IP3 @ 12V



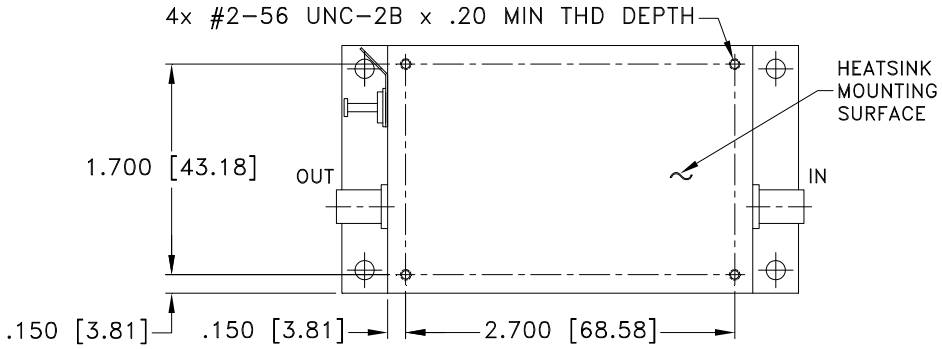
Case Style S

S32

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. ± .03; 3 Pl. ± .015

Notes:

1. Case material: Aluminum alloy.
2. Case finish:
   For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
3. Heat sink finish: Black anodize.

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Environmental Specifications ENV23T3

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	-20° to 65° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Stabilization Bake	(non-operating) 125°C, 24 hours	- - -
Burn-in at Elevated Temp.	(DC on) 160 hours at 85° C	MIL-STD-202, Method 108
Thermal Shock	-55° to 100°C, 5 cycles	MIL-STD-202, Method 107, Condition A, except 100°C

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