

Coaxial Amplifier

ZHL-ED13362/5

High Power

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 : DDD338

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	400		950	MHz
Gain		26		dB
Output Power @ 1dB Compression		40		dBm
Output IP3		50		dBm
Noise Figure		10		dB
VSWR	IN	1.30		(:1)
	OUT	1.30		(:1)
DC Power	Voltage	24		V
	Current		3500	mA

MAXIMUM RATINGS	
Operating Temperature	-20°C to 60°C
Storage Temperature	-55°C to 100°C
Input Power	25 dBm*

* At nominal output load, 24V nominal supply voltage

Coaxial High Power Amplifier ZHL-ED13362/5

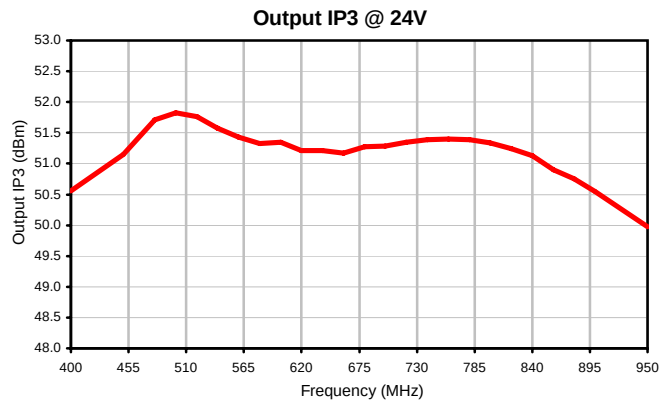
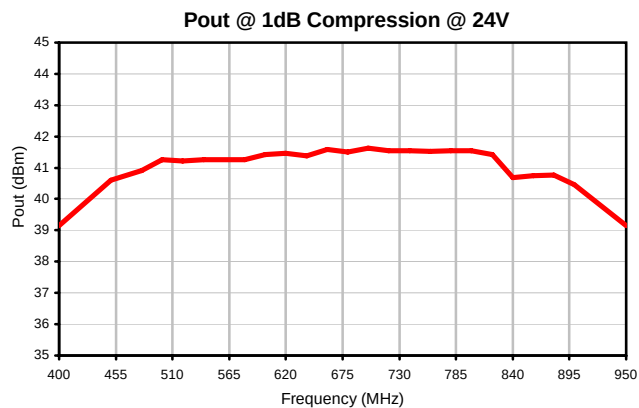
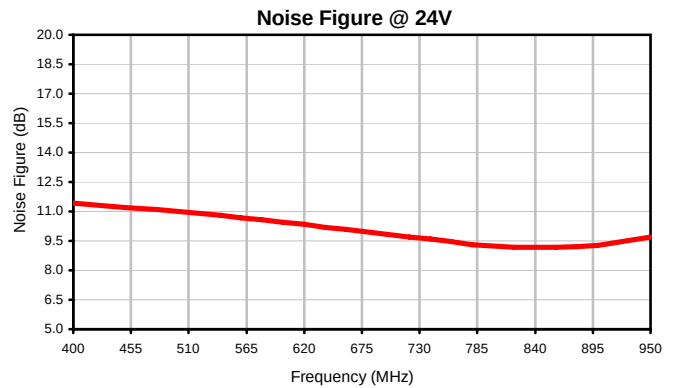
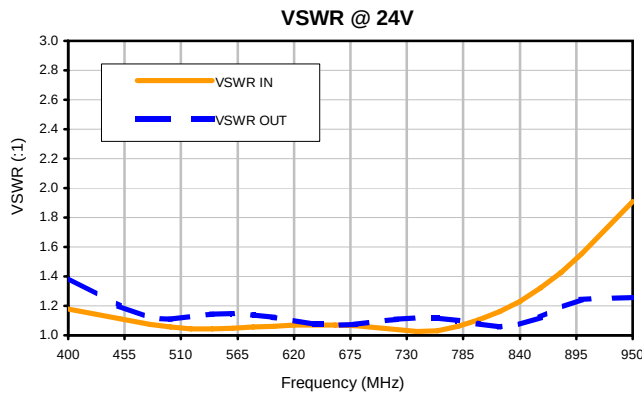
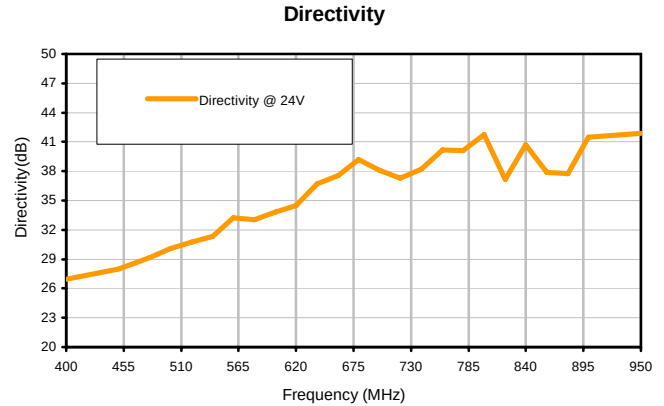
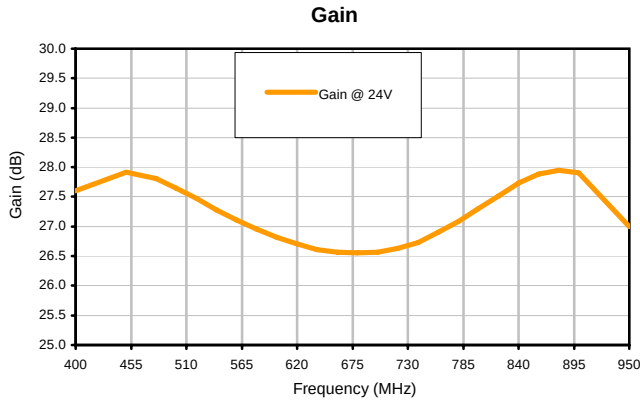
Typical Performance Data

FREQUENCY	GAIN	DIRECTIVITY	VSWR IN	VSWR OUT	NOISE FIGURE	Pout at 1dB COMP.	OUTPUT IP3
(MHz)	(dB) 24V	(dB) 24V	(:1) 24V	(:1) 24V	(dB) 24V	(dBm) 24V	(dBm) 24V
400.0	27.60	26.92	1.18	1.39	11.44	39.15	50.56
450.0	27.92	27.97	1.11	1.20	11.21	40.61	51.15
480.0	27.81	29.17	1.07	1.12	11.10	40.90	51.71
500.0	27.65	30.08	1.05	1.11	11.01	41.25	51.83
520.0	27.47	30.71	1.04	1.13	10.90	41.22	51.76
540.0	27.28	31.30	1.04	1.14	10.79	41.26	51.58
560.0	27.11	33.25	1.05	1.15	10.68	41.26	51.43
580.0	26.95	33.03	1.06	1.14	10.56	41.26	51.33
600.0	26.81	33.84	1.06	1.12	10.43	41.43	51.35
620.0	26.71	34.47	1.07	1.10	10.36	41.47	51.21
640.0	26.61	36.68	1.07	1.07	10.17	41.38	51.21
660.0	26.57	37.56	1.07	1.07	10.10	41.59	51.17
680.0	26.55	39.19	1.06	1.08	9.96	41.50	51.27
700.0	26.57	38.09	1.05	1.09	9.84	41.62	51.28
720.0	26.63	37.29	1.04	1.11	9.69	41.54	51.35
740.0	26.73	38.24	1.02	1.12	9.59	41.55	51.39
760.0	26.90	40.18	1.03	1.12	9.46	41.53	51.40
780.0	27.08	40.10	1.06	1.10	9.32	41.55	51.39
800.0	27.30	41.73	1.10	1.08	9.25	41.54	51.34
820.0	27.52	37.16	1.16	1.06	9.18	41.42	51.24
840.0	27.73	40.71	1.23	1.07	9.19	40.69	51.13
860.0	27.88	37.87	1.32	1.12	9.19	40.75	50.90
880.0	27.95	37.78	1.43	1.19	9.22	40.76	50.75
900.0	27.91	41.47	1.55	1.25	9.28	40.47	50.55
950.0	27.00	41.88	1.91	1.26	9.70	39.16	49.97

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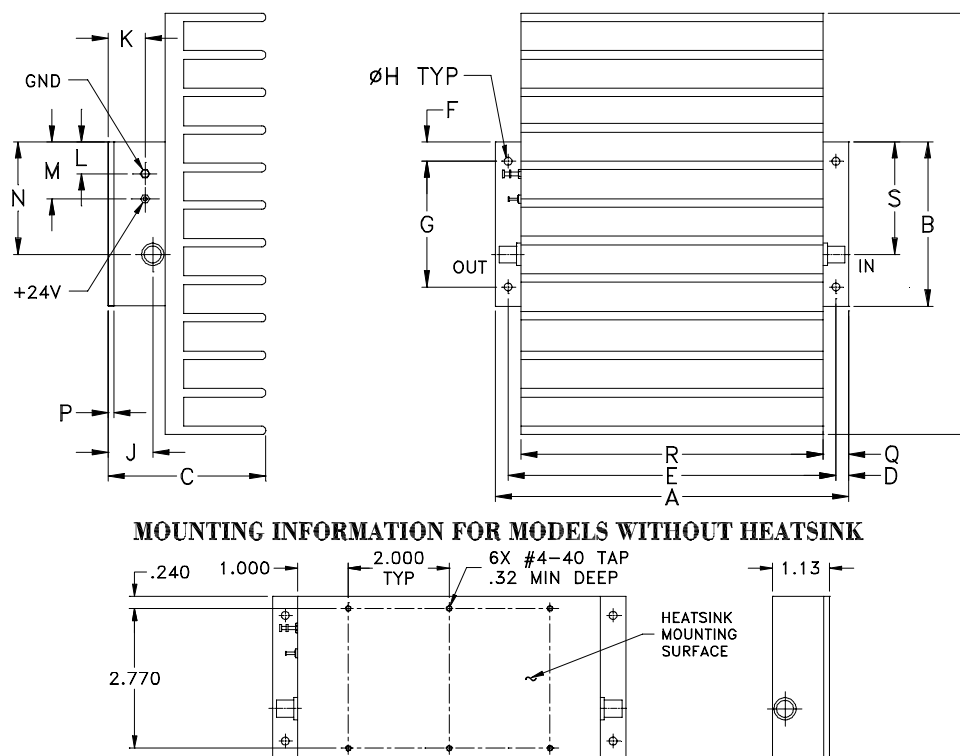
Typical Performance Curves

ZHL-ED13362/5

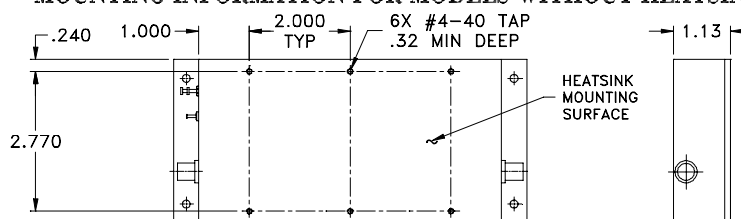


Outline Dimensions

DDD338



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
DDD338	7.00 (177.80)	3.25 (82.55)	3.13 (79.50)	.25 (6.35)	6.500 (165.10)	.38 (9.65)	2.500 (63.50)	.156 (3.96)	.88 (22.35)	.73 (18.54)	.62 (15.75)	1.13 (28.70)	2.23 (56.64)

CASE#	P	Q	R	S	T	WT. GRAMS	WT. WITHOUT HEATSINK GRAMS
DDD338	.125 (3.18)	.50 (12.70)	6.00 (152.40)	2.23 (56.64)	8.35 (212.09)	1780	510

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.
- Heatsink finish: Black anodize if supplied with heatsink.
- Refer to the individual model data sheet for the type of connectors available.



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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	-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