

Engineering Development Model

High Power Amplifier

LZY-ED14244/2

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 : BT1598

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	.1		200	MHz
Gain		43		dB
Output Power @ 1dB Compression		42		dBm
Noise Figure		8.9		dB
IP ₃ ⁽¹⁾		52		dBm
VSWR	IN	1.40		(:1)
	OUT	4.00		(:1)
DC Power	Voltage	24		V
	Current		6000	mA

⁽¹⁾Two tones, 0.5W/tone, 1 MHz spacing

MAXIMUM RATINGS	
Operating Temperature	-10°C to 50°C Case
Storage Temperature	-30°C to 100°C
Input RF Power (No Damage)	20 dBm



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Typical Performance Data

FREQ. (MHz)	GAIN (dB) 24V	DIRECTIVITY (dB) 24V	VSWR (:1)		NOISE FIGURE (dB) 24V	POUT @ 1 dB COMPRESSION (dBm) 24V	OUTPUT IP3 (dBm) 24V
			IN 24V	OUT 24V			
0.1	45.61	22.22	1.26	3.36	--	41.93	53.37
0.7	45.30	21.72	1.20	3.72	--	42.38	55.84
1.0	45.34	21.74	1.21	3.72	--	42.45	55.89
2.0	45.28	22.68	1.20	3.71	--	42.47	55.96
5.0	45.06	25.54	1.20	3.75	--	42.55	56.00
10.0	44.81	23.79	1.21	3.80	8.78	42.36	56.03
30.0	44.37	24.74	1.33	3.58	8.31	43.21	55.23
50.0	43.78	25.79	1.38	3.05	8.07	43.25	53.09
70.0	44.40	24.81	1.37	1.91	8.26	42.41	51.20
90.0	44.59	24.14	1.31	1.22	8.33	41.60	50.17
100.0	44.73	24.08	1.28	1.05	8.31	41.98	50.22
120.0	44.36	25.25	1.22	1.56	8.18	43.38	51.61
160.0	44.20	26.43	1.07	1.81	8.18	43.96	52.27
180.0	44.32	26.07	1.08	1.55	8.27	42.83	51.66
200.0	43.86	28.10	1.10	1.33	8.30	41.39	50.36

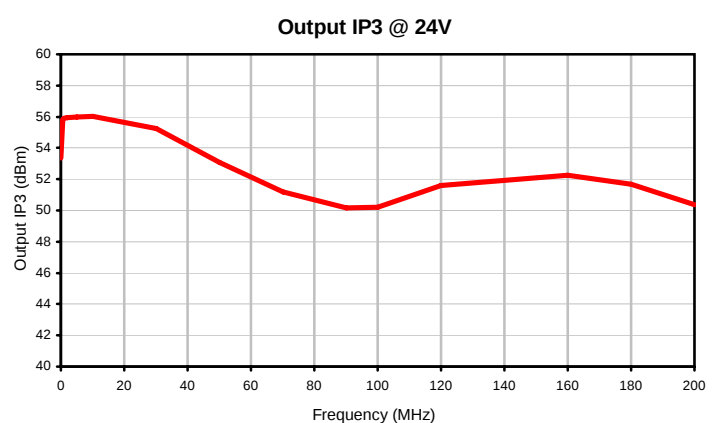
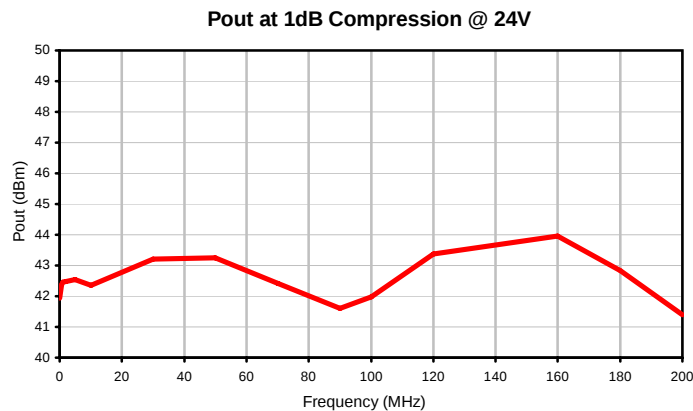
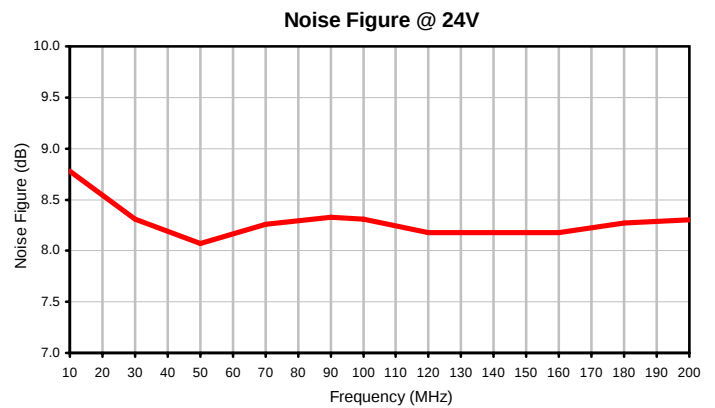
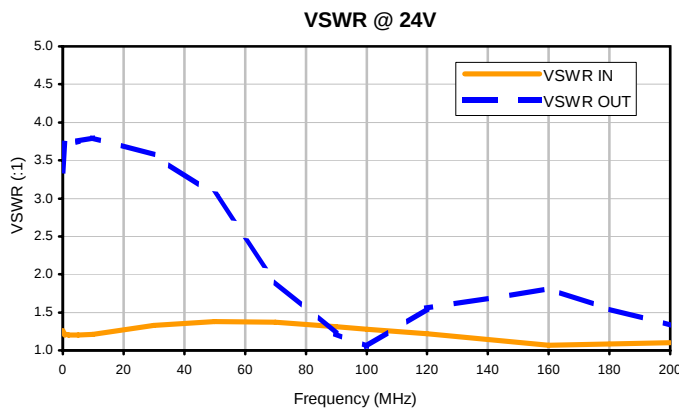
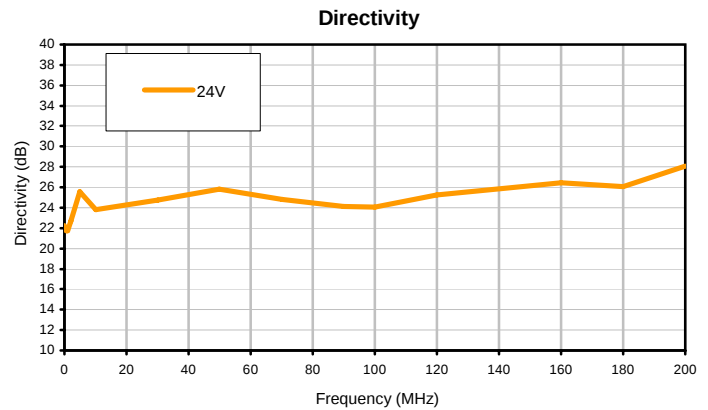
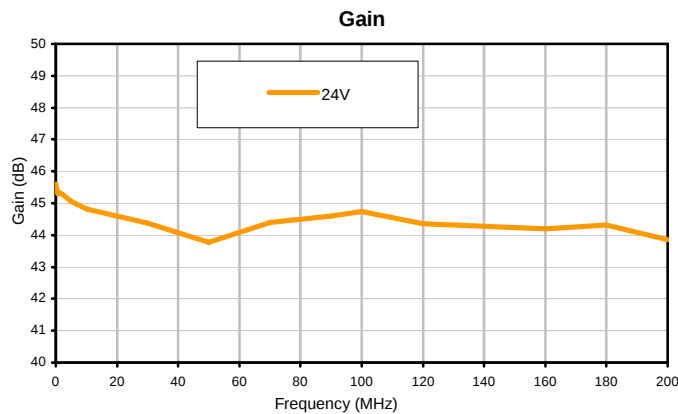


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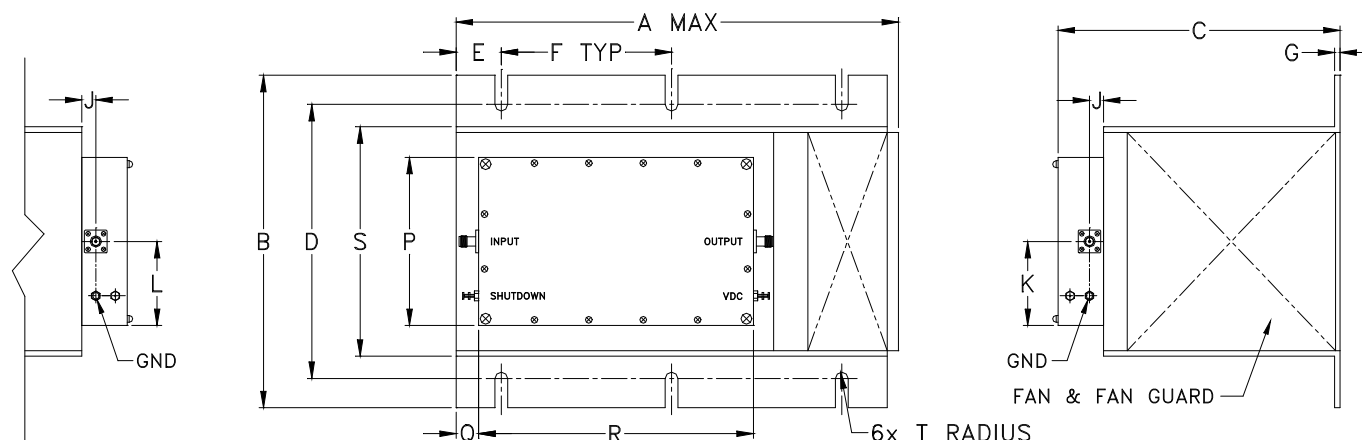
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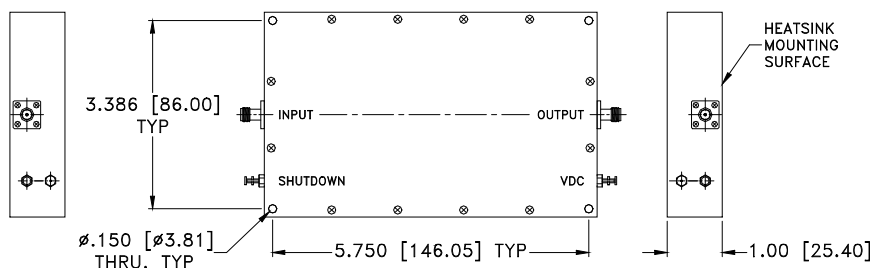
Typical Performance Curves



Outline Dimensions



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK.



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
BT1598	9.85 (250.19)	7.3 (185.42)	6.3 (160.02)	6.00 (152.40)	.98 (24.89)	3.75 (95.25)	.13 (3.30)	-	.31 (7.87)	1.84 (46.74)	1.84 (46.74)	-	-

CASE#	P	Q	R	S	T	WT, GRAM	WT WITHOUT HEATSINK, GRAM
BT1598	3.68 (93.47)	.5 (12.70)	6.05 (153.67)	5.1 (129.54)	.135 (3.43)	4185	500

Dimensions in inches (mm). Tolerances: 1 Pl. $\pm .1$; 2Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Finish:
For RoHS Case Styles: Clear Chemical conversion coating, non-chrome or trivalent chrome based.
- Heatsink finish: Black anodize.
- Refer to the individual model data sheet for the type of connectors available.
- Recommended screws for mounting model without heat sink on 3/32" thick sheet: #6-32, 1.50" Length.



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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	-10° to 50° 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