Engineering Development Model

Coaxial High PowerAmplifer ZHL-ED13636C/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 : BT1344

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		**Min.**	**Typ.**	**Max.**	**Units**
Frequency		2300		2550	MHz
Gain			50		dB
Output Power @ 1dB Compression			43		dBm
Noise Figure			7.0		dB
IP3			51		dBm
VSWR	IN		1.25		(:1)
	OUT		1.25		(:1)
DC Power					
	Voltage		28		V
	Current			4300	mA

MAXIMUM RATINGS	
Operating Temperature	-20°C to +41°C
Storage Temperature	-55°C to +100°C
Base Plate Temperature	-20°C to +600°C
Input RF Power (No damage)	+9dBm

Permanent damage may occur if any of these limits are exceeded

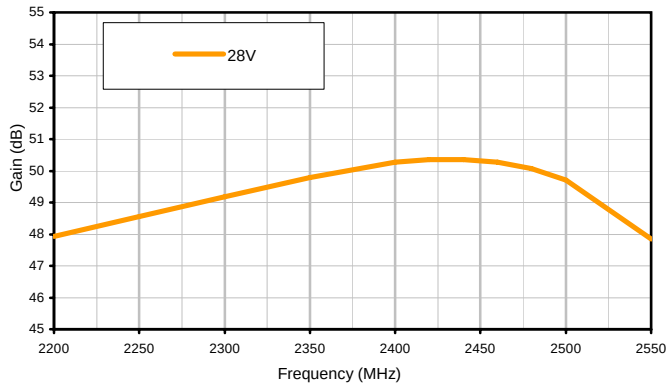
High Power Amplifier ZHL-ED13636C/1

Typical Performance Data

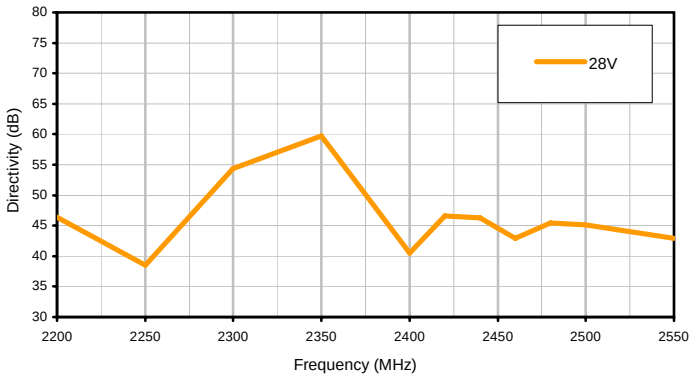
FREQ. (MHz)	GAIN (dB) 28V	DIRECTIVITY (dB) 28V	VSWR (:1) IN 28V	VSWR (:1) OUT 28V	NOISE FIGURE (dB) 28V	POUT @ 1 dB COMPRESSION (dBm) 28V	POUT @ 3 dB COMPRESSION (dBm) 28V	OUTPUT IP3 (dBm) 28V
2200.0	47.93	46.39	1.78	1.52	7.53	41.85	43.75	50.73
2250.0	48.55	38.56	1.67	1.36	7.62	43.19	44.86	51.03
2300.0	49.18	54.37	1.55	1.24	7.63	43.79	45.75	51.77
2350.0	49.79	59.76	1.46	1.16	7.60	43.86	46.04	51.93
2400.0	50.27	40.46	1.37	1.19	7.62	43.80	45.85	51.65
2420.0	50.36	46.57	1.34	1.21	7.60	43.61	45.90	51.44
2440.0	50.36	46.32	1.33	1.24	7.53	43.68	45.86	51.35
2460.0	50.28	42.92	1.31	1.27	7.59	43.88	45.99	51.40
2480.0	50.08	45.43	1.30	1.30	7.53	44.07	45.97	51.20
2500.0	49.70	45.12	1.29	1.32	7.51	43.84	45.84	51.12
2550.0	47.85	42.96	1.31	1.36	7.63	43.53	44.94	50.55

Typical Performance Curves

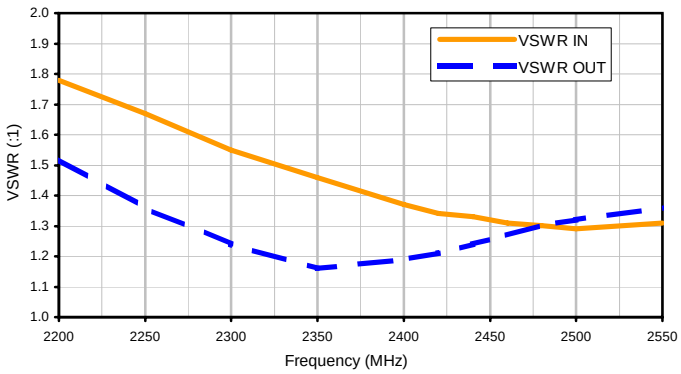
Gain



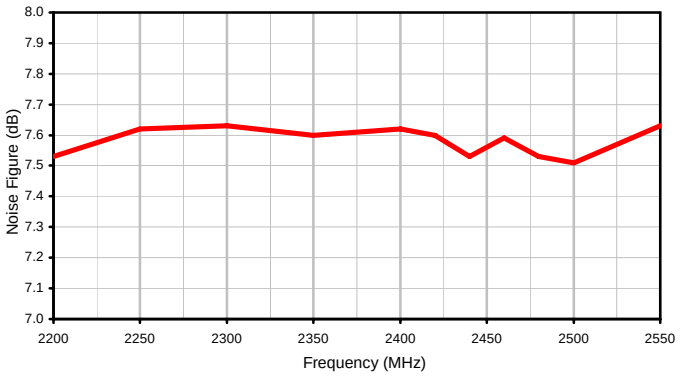
Directivity



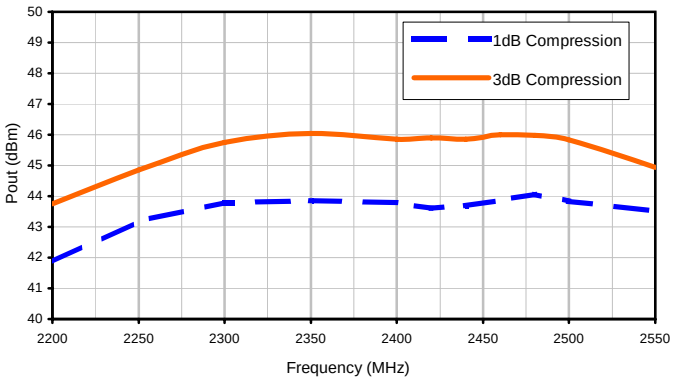
VSWR @ 28V



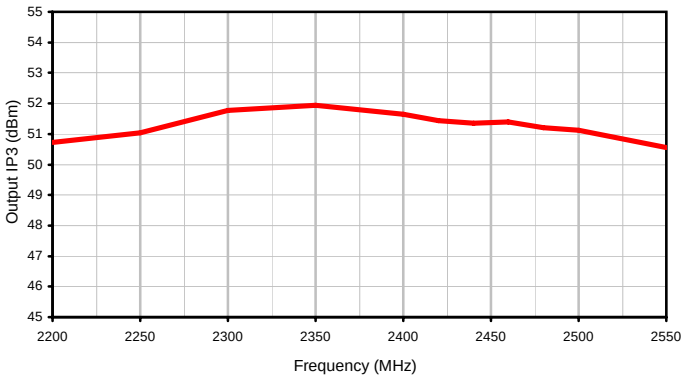
Noise Figure @ 28V



Pout at 1dB & 3dB Compression @ 28V



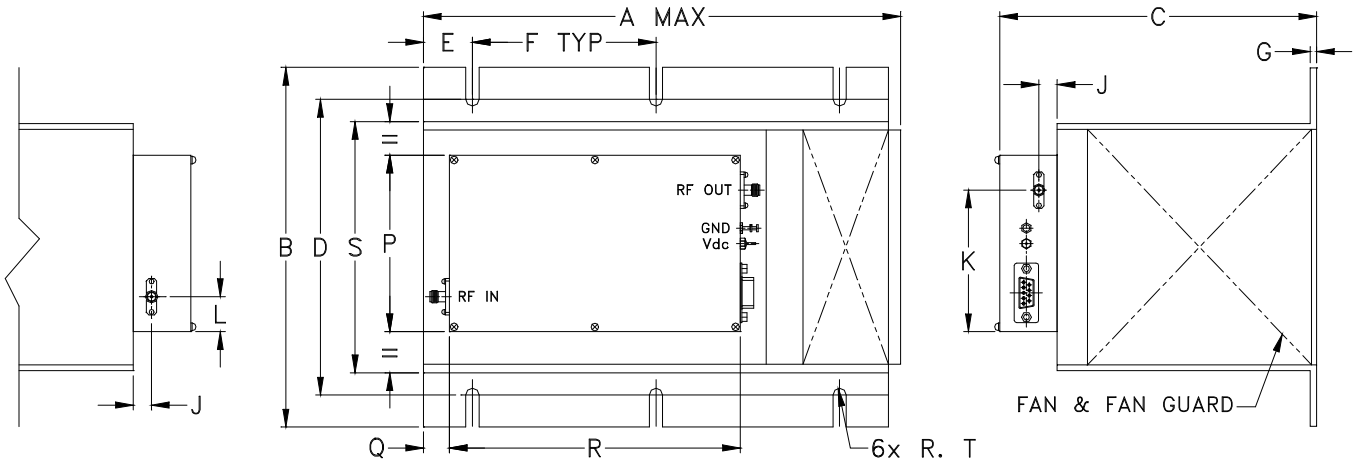
Output IP3 @ 28V



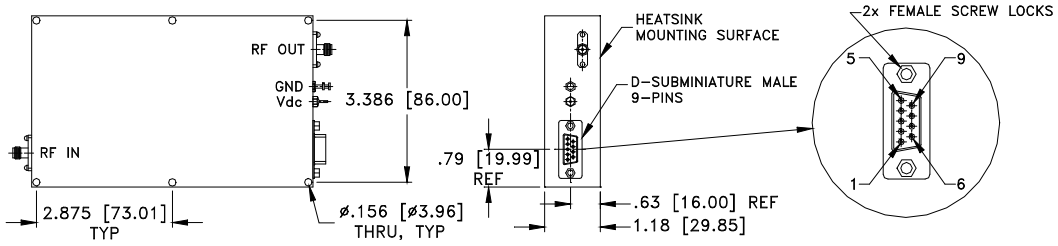
Case Style BT

BT1344

Outline Dimensions



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK.



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
BT1344	9.85 (250.19)	7.3 (185.42)	6.5 (165.10)	6.00 (152.40)	1.00 (25.40)	3.75 (95.25)	.13 (3.30)	- -	.37 (9.40)	2.87 (72.90)	.71 (18.03)	- -	- -

CASE#	P	Q	R	S	T	WT, GRAM	WT WITHOUT HEATSINK, GRAM
BT1344	3.58 (90.93)	.5 (12.70)	5.95 (151.13)	5.1 (129.54)	.135 (3.43)	4265	580

Dimensions are in inches (mm). Tolerances: 1 Pl. ± .1; 2 Pl. ± .03; 3 Pl. ± .015

Notes:

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