Engineering Development Model

Amplifier

ZHL-ED15008/2

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: BT1689

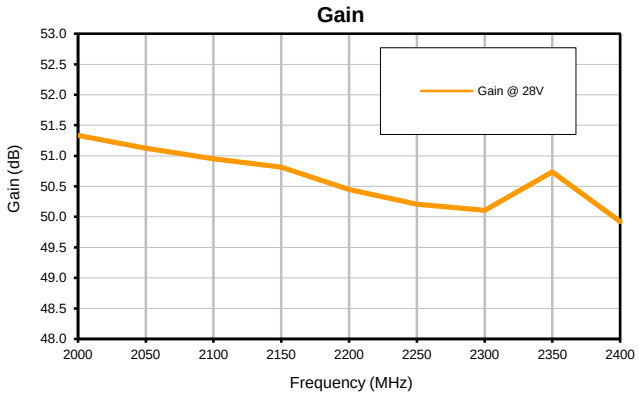
ELECTRICAL SPECIFICATIONS 50Ω @ +25°C					
Parameter		**Min.**	**Typ.**	**Max.**	**Units**
Frequency		2000		2400	MHz
Gain			50		dB
Output Power @ 1dB Compression			51		dBm
Noise Figure			7		dB
IP3			58		dBm
VSWR					
	IN		1.5		(:1)
	OUT		1.5		(:1)
DC Power	**Voltage**		28		V
	Current			18	A

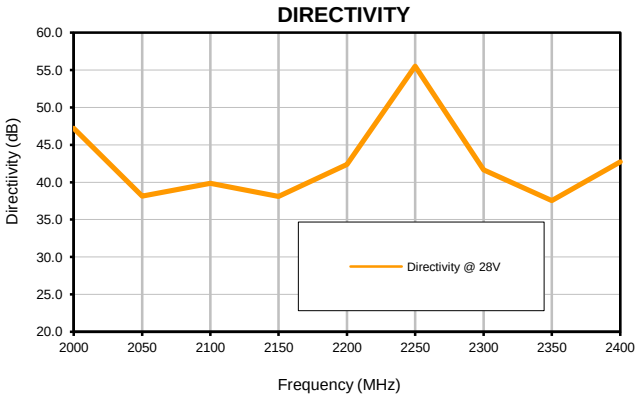
MAXIMUM RATINGS	
Operating Base Plate Temperature	-20°C TO +60°C
Storage Temperature	-55°C TO +100°C

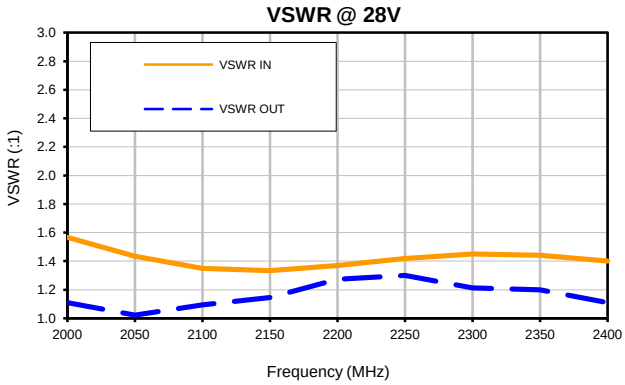
Typical Performance Data

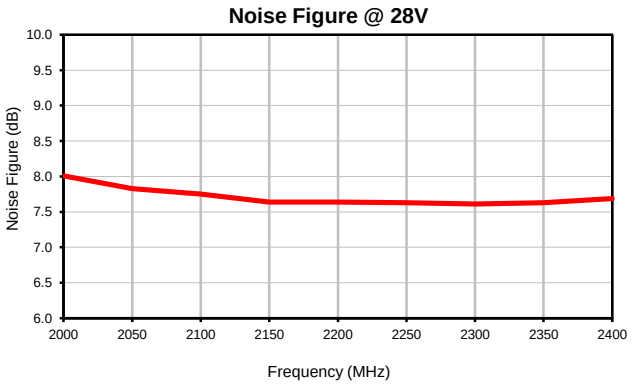
Frequency (MHz)	GAIN (dB) 28V	Directivity (dB) 28V	VSWR In (:1) 28V	VSWR Out (:1) 28V	Noise Figure (dB) 28V	Pout at 1dB Compression (dBm) 28V	Output IP3 (dBm) 28V
2000.0	51.34	47.23	1.57	1.11	8.01	50.56	56.83
2050.0	51.12	38.13	1.43	1.02	7.83	51.01	56.92
2100.0	50.95	39.84	1.35	1.09	7.75	51.53	56.66
2150.0	50.82	38.10	1.33	1.15	7.64	51.97	56.64
2200.0	50.45	42.39	1.37	1.27	7.64	51.97	56.87
2250.0	50.21	55.51	1.42	1.30	7.63	52.23	57.01
2300.0	50.11	41.66	1.45	1.21	7.61	52.08	56.94
2350.0	50.74	37.56	1.44	1.20	7.63	51.71	56.81
2400.0	49.92	42.70	1.40	1.11	7.69	50.70	56.16

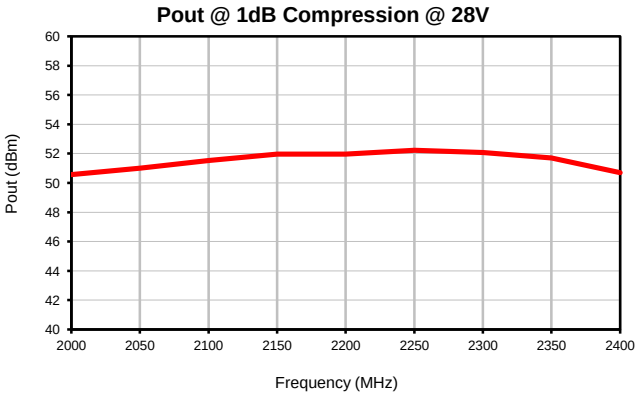
Typical Performance Curves

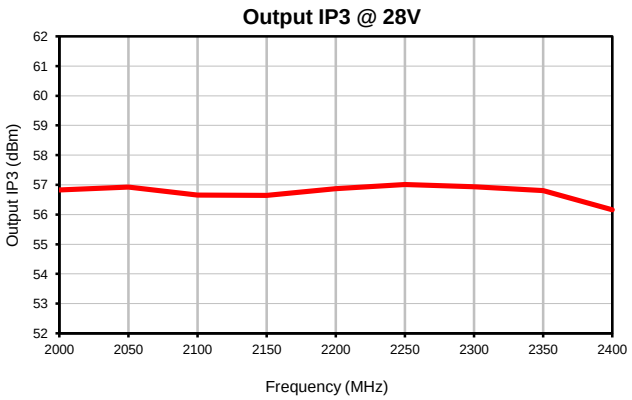








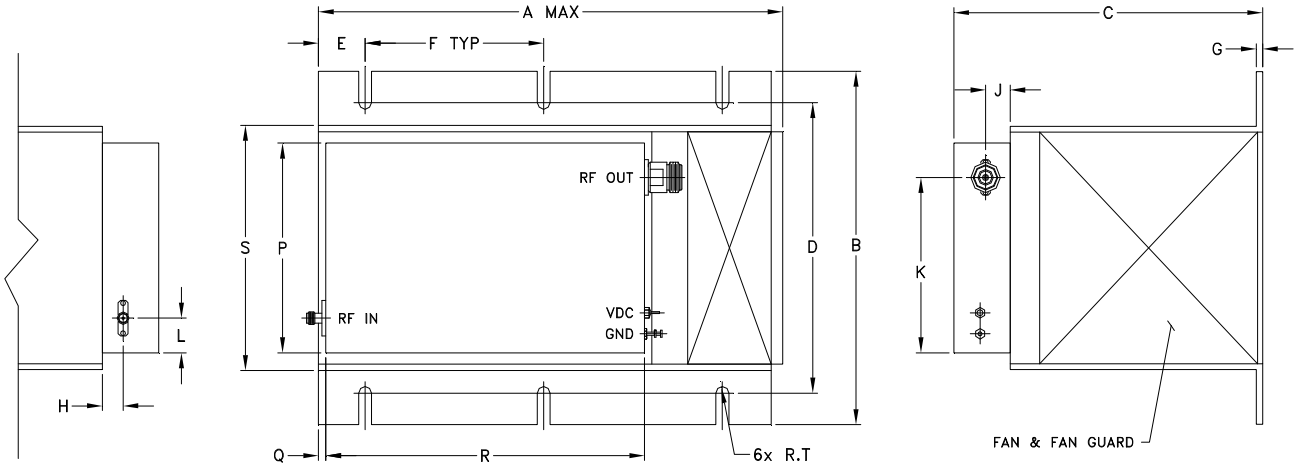




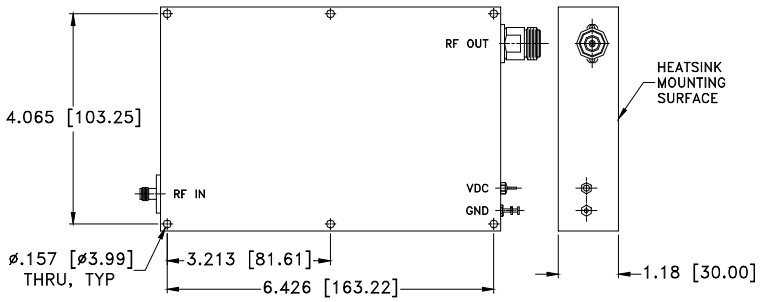
Case Style BT

BT1689

Outline Dimensions



MOUNTING INFORMATION FOR MODELS WITHOUT HEATSINK



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
BT1689	9.85 (250.19)	7.3 (185.42)	6.5 (165.10)	6.00 (152.40)	.98 (24.89)	3.75 (95.25)	.13 (3.30)	.43 (11.0)	.51 (13.00)	3.34 (84.83)	.72 (18.29)	- -	- -

CASE#	P	Q	R	S	T	WT, GRAM	WT WITHOUT HEATSINK, GRAM
BT1689	4.33 (109.98)	.2 (5.08)	6.69 (169.93)	5.1 (129.54)	.136 (3.45)	4565	880

Dimensions in inches (mm). Tolerances: 1 Pl. ± .1; 2Pl. ± .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.
6. Shape of connector flange may vary.

Mini-Circuits

Environmental Specifications **ENV23T15**

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 60°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