

Coaxial

Broadband Amplifier

ZFL-1200GH+

50Ω Variable Gain 10 to 1200 MHz

Features

- wideband, 10 to 1200 MHz
- rugged, shielded case
- gain control range: 60 dB typ.
- gain control voltage: 0 to +5V
- variable gain: +34 to -26 dB

Applications

- cellular
- VHF/UHF
- AGC applications



CASE STYLE: Y39

Connectors	Model	Price	Qty.
SMA	ZFL-1200GH+	\$309.00 ea.	(1-9)
BRACKET (OPTION "B")		\$5.00	(1+)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C, $V_{CTRL}=0V$ (or open)

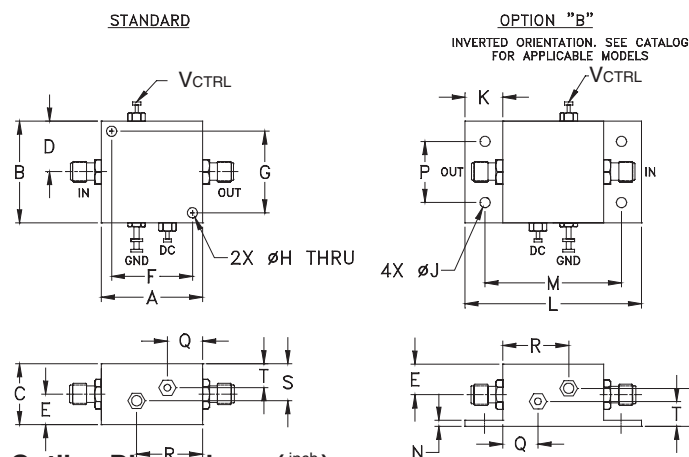
Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		10	—	1200	MHz
Gain	10-1200	29	32	—	dB
Gain Flatness	10-1200	—	±1.3	—	dB
Output Power at 1dB compression	10-1200	—	+13	—	dBm
Output Power at 3dB compression	10-1200	—	+15	—	dBm
Noise Figure	10-1200	—	5.5	—	dB
Output third order intercept point	10-1200	—	+28	—	dBm
Output second order intercept point	10-1200	—	+50	—	dBm
Input VSWR	10-1200	—	1.25	—	:1
Output VSWR	10-1200	—	1.5	—	:1
DC Supply Voltage		—	15	—	V
Supply Current		—	—	230	mA

Open load is not recommended, potentially can cause damage.

With no load derate max input power by 20 dB

V_{CTRL} : Gain Control Voltage.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	wt.
1.25	1.25	.75	.63	.36	1.000	1.000	.125	.125	.46	2.18	1.688	.06	.750	.50	.80	.45	.29	grams
31.75	31.75	19.05	16.00	9.14	25.40	25.40	3.18	3.18	11.68	55.37	42.88	1.52	19.05	12.70	20.32	11.43	7.37	38

Gain Flatness, $V_{CC}=15V$, 10-1200 MHz

V_{CTRL} (V)	Gain Flatness (dB) Typ.
0 or open	±1.3
1	±1.5
2	±2.2
3	±3.3
4	±1.0
5	±1.0

Maximum Ratings

Parameter	Ratings
Operating Temperature	-20°C to 71°C
Storage Temperature	-55°C to 100°C
DC Voltage	+17V
V_{CTRL}	0 to +5.5V
Input RF Power (no damage)	+10 dBm

Permanent damage may occur if any of these limits are exceeded.

Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

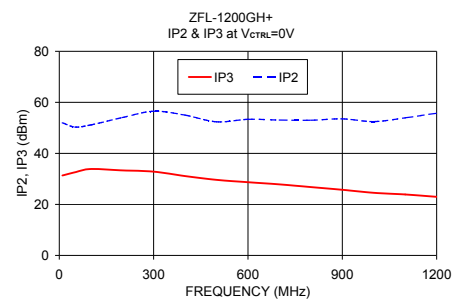
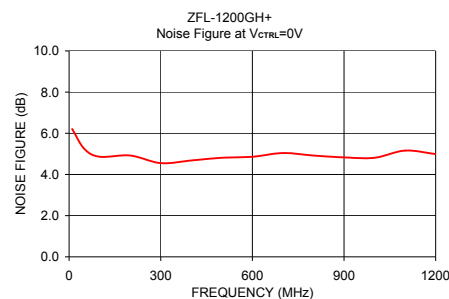
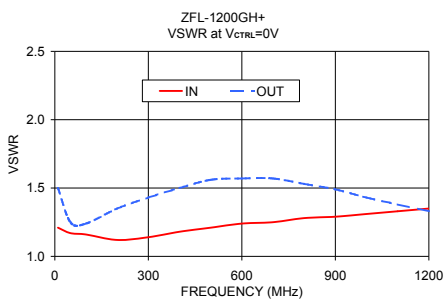
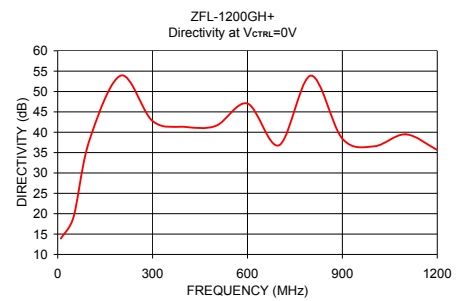
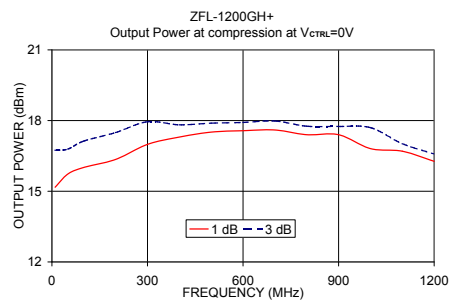
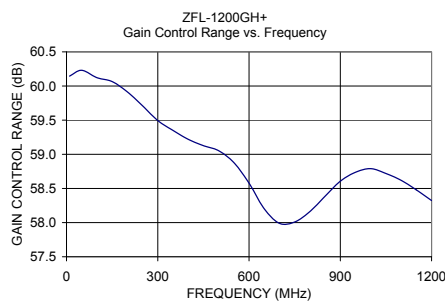
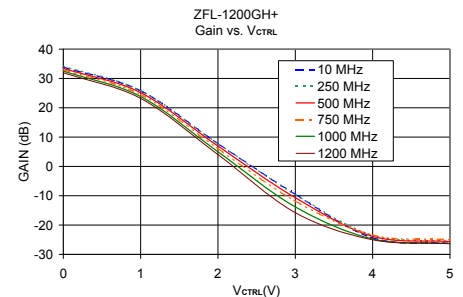
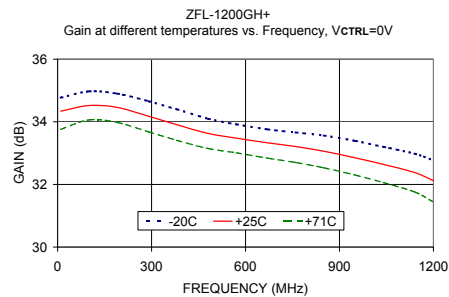
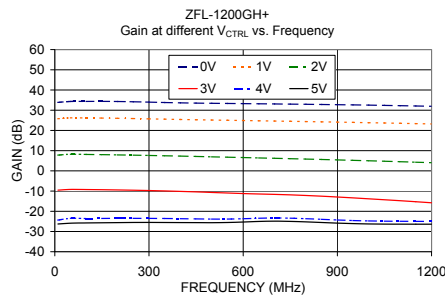
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



www.minicircuits.com P.O. Box 35166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		POUT at 1 dB COMPR. (dBm)	POUT at 3 dB COMPR. (dBm)	NOISE FIGURE (dB)	IP3 (dBm)	IP2 (dBm)
			IN	OUT					
10.00	34.34	13.91	1.21	1.50	15.17	16.74	6.21	31.32	51.99
50.00	34.52	19.18	1.17	1.25	15.73	16.79	5.24	32.59	50.30
100.00	34.46	37.95	1.16	1.24	16.01	17.13	4.86	33.86	51.13
200.00	34.18	53.92	1.12	1.35	16.35	17.49	4.92	33.33	54.02
300.00	33.91	42.75	1.14	1.43	16.99	17.95	4.55	32.84	56.51
500.00	33.48	41.56	1.21	1.56	17.51	17.89	4.81	29.62	52.37
600.00	33.33	47.04	1.24	1.57	17.57	17.92	4.86	28.70	53.34
800.00	33.06	53.89	1.28	1.53	17.40	17.76	4.92	26.78	52.99
1000.00	32.64	36.54	1.31	1.43	16.81	17.70	4.81	24.53	52.46
1100.00	32.38	39.49	1.33	1.38	16.70	17.02	5.16	23.89	53.92
1200.00	32.12	35.67	1.35	1.33	16.27	16.58	4.99	22.97	55.74

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