Wideband Amplifier

ZHL-132LM-75+

75Ω 40 to 1300 MHz

Case Style: S860

The Big Deal

- Ultra low second harmonic, very high output IP2, 75 dBm typ.
- Excellent output IP3, 43 dBm typ.
- Output power at 1 dB compression, +24 dBm typ.
- Very low cost, \$79.95 (qty. 1)

Product Overview

The ZHL-132LM-75+ is a high-performance, push-pull amplifier featuring very low second-and third-order distortion products across its 40-1300 MHz bandwidth. Designed for a 6V/256 mA typ. power supply, with F connectors in/out, it's a high-value, low-cost solution providing a 14-dB gain for CATV, instrumentation, and many other applications at VHF, UHF, and lower L-band frequencies. The rugged, aluminum alloy case measures 3.75 x 2.0 x 0.80" high.

Feature Advantages		
Ultra low second harmonic, -80 dBc typ. at 5 dBm output	Exceptionally low second order harmonic distortion	
Very high output IP2, 85 dBm typ	Very high linearity across full bandwidth	
Excellent output IP3, 43 dBm typ	Excellent suppression of unwanted intermods in the presence of multi carriers	
Output power 24 dBm typ	Appropriate signal strength for CATV forward path, instrumentation, broadcasting, and GSM/EDGE/CDMA/UMTS/LTE systems at 7-900 MHz.	

For detailed performance speci

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- Excellent output IP3, 43 dBm typ.
- Output power, 24 dBm.

Applications

- CATV
- Instrumentation



Case Style: S860

Connectors Model Price Qty. F-Female ZHL-132LM-75-F+ \$79.95 ea. (1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

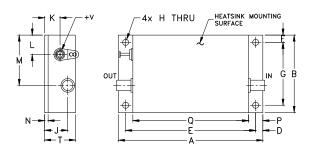
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications at 25°C

Parameter	Condition (MHz)	Min	Тур.	Max.	Units	
Frequency Range		40		1300	MHz	
	40	13.3	16.0	_		
Gain	700	13.0	14.4	_	dB	
Gaiii	1000	12.6	13.9	_		
	1300	11.0	13.0	_		
	40	23.0	25.3	_		
Output Power at 1dB compression	700	22.6	24.5	_	dBm	
Output Fower at Tub compression	1000	22.0	24.1	_	dbiii	
	1300	22.0	24.5	_		
	40	_	43.2	_	dBm	
Output third order intercept point IP3*	700	_	45.5	_		
Output tillia order intercept point il 3	1000	_	48.0	_		
	1300	_	42.3	_		
	40	_	80.5	_		
Output second order intercept point IP2*	700	_	71.5	_	dBm	
Output second order intercept point in 2	1000	_	70.4	_	dbiii	
	1300	_	70.0	_		
Noise Figure	40-1300	_	3.5	5	dB	
Input VSWR	40-1300	_	1.3	_	:1	
Output VSWR	40-1300	_	1.3	_	:1	
DC Supply Voltage	40-1300	_	6.0	6.5	V	
Supply Current	40-1300	220	300	360	mA	

^{*}Two tones, spaced 1 MHz apart, 5 dBm/tone at output.

Outline Drawing



Maximum Ratings

Parameter	Ratings		
Operating Temperature	-40°C to 55°C		
Case Temperature	+65°C		
Storage Temperature	-55°C to 100°C		
DC Voltage	7V		
Input RF Power (no damage)	24dBm		

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

Outline Dimensions (inch mm)

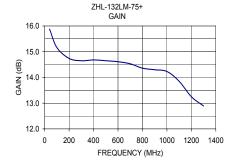
D E F G H .50 .40 .50 1.30 .10 .38 3.00 3.66 12.70 10.16 12.70 33.02 2.54

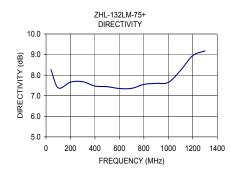


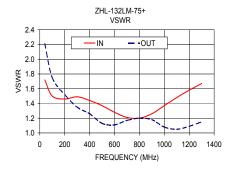
For detailed performance specs

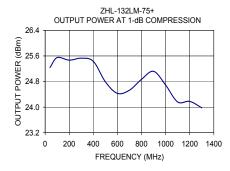
ISO 9001 ISO 14001 AS 9100 CERTIFIED
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipcuits.com IF/RF MICROWAVE COMPONENTS

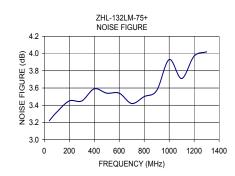
FREQUENCY GAIN (MHz) (dB)	DIRECTIVITY (dB)	VSWR (:1)		NOISE FIGURE (dB)	POUT at 1dB COMPR. (dBm)	OUTPUT IP3 (dBm)	
	6V	IN	OUT	6V	6V	6V	
40.00	15.88	8.27	1.72	2.21	3.22	25.24	43.32
100.00	15.16	7.38	1.50	1.75	3.32	25.55	45.07
200.00	14.74	7.66	1.46	1.52	3.45	25.47	44.98
300.00	14.65	7.68	1.49	1.35	3.45	25.53	46.16
400.00	14.68	7.47	1.44	1.26	3.59	25.43	43.88
500.00	14.65	7.44	1.37	1.13	3.54	24.79	44.09
600.00	14.61	7.35	1.28	1.11	3.54	24.43	42.28
700.00	14.53	7.36	1.21	1.17	3.42	24.53	42.81
800.00	14.36	7.55	1.20	1.20	3.5	24.87	43.08
900.00	14.30	7.60	1.26	1.18	3.57	25.12	44.83
1000.00	14.23	7.65	1.37	1.08	3.93	24.69	45.83
1100.00	13.85	8.23	1.48	1.05	3.71	24.16	43.63
1200.00	13.25	8.95	1.58	1.09	3.97	24.18	42.83
1300.00	12.89	9.18	1.67	1.15	4.02	23.98	42.33

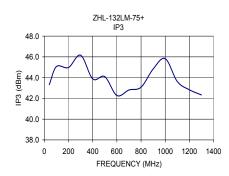


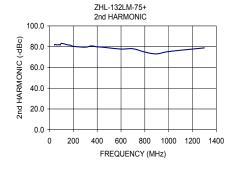


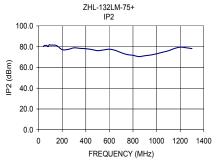












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