

Linear Pulse Amplifier

Features

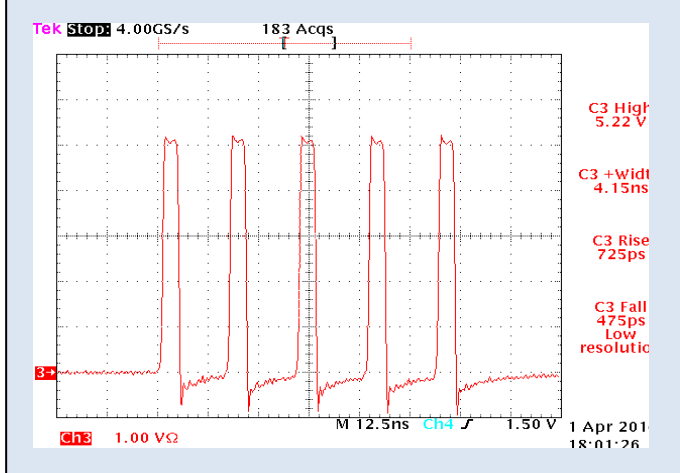
- Non-inverting amplifier with gain of <math><30\text{dB}</math>
- Wide bandwidth: 3KHz to 700MHz
- Rise and fall times of $\sim 1\text{ns}$
- Handles pulse width up to over 10 μs
- Linear response
- Output pulses up to $> 5\text{V}$
- Single 24V power supply
- Compatible to OPM's AWG-2500 product
- Suitable to drive M-Z optical modulators

Product photo

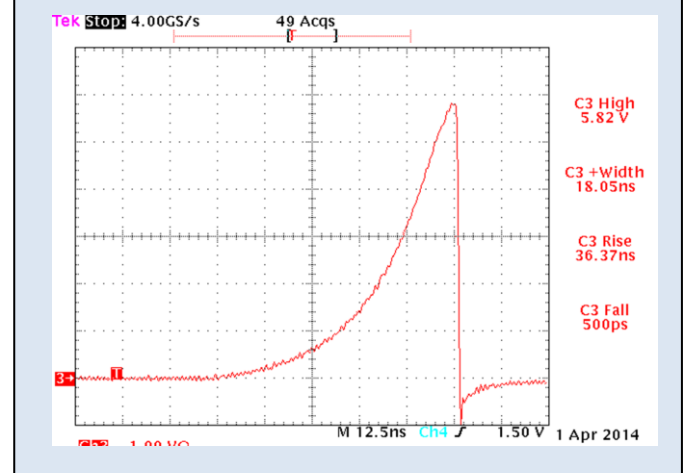


Output waveforms

Train of five 4ns pulses, 5.2V peaks



Exponential wave 70ns long, 5.8V peak



Description

The OPM-AMP-700 is a non-inverting wide-bandwidth, linear RF amplifier.

The lower -3dB cut-off frequency point of 2KHz (typical) makes the OPM-AMP-700 suitable to amplify wide range of pulses. With linear response up to output voltages of over 4.5V and peak voltages of over 5V the product is suitable to drive Mach-Zehnder modulators.

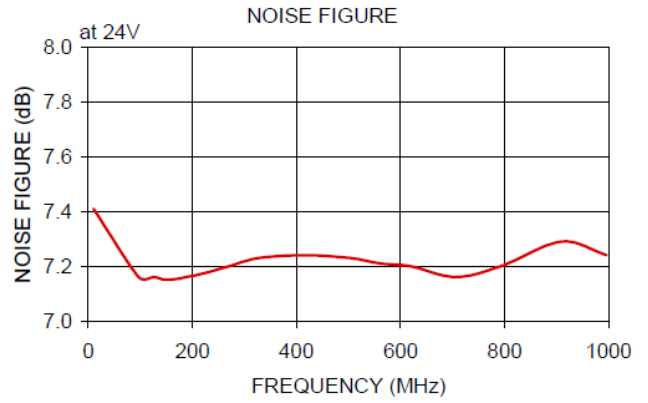
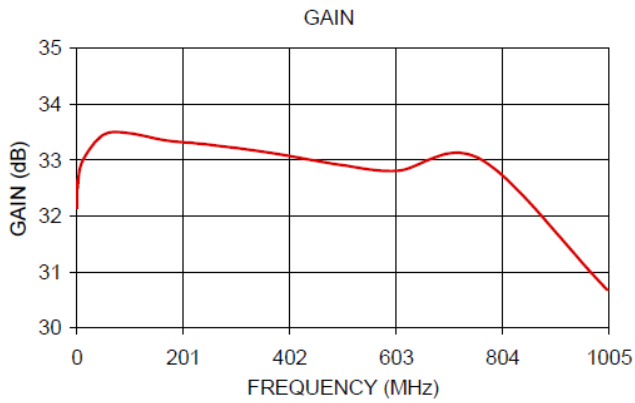
Fine tuning of the OPM-AMP-700's gain is done by changing the power supply voltage – up to 24V.

Input and output are AC coupled and 50 ohm terminated. RF connectors are BNC type.

The product includes a heat-sink so that no further cooling is required in lab conditions.

Product applications

- Amplifier to drive Mach-Zehnder electro-optical modulators
- General mid-power RF amplifier for electronic labs

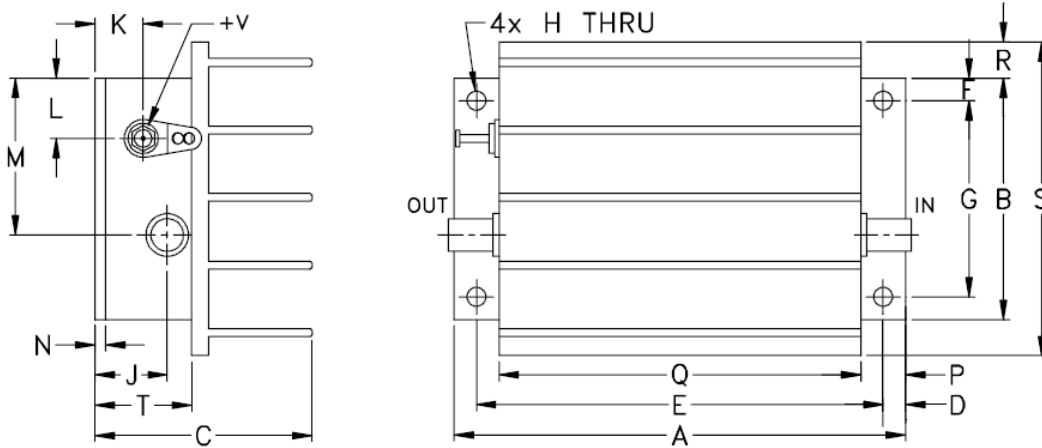


Maximum Ratings

Operating Temperature	-20°C to 65°C
Storage Temperature	-55°C to 100°C
DC Voltage	+24.5V Max.

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

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
3.75	2.00	1.80	.19	3.375	.19	1.625	.144	.50	.40	.50	1.30	.10	.38	3.00	.30	2.60	.80	grams
95.25	50.80	45.72	4.83	85.73	4.83	41.28	3.66	12.70	10.16	12.70	33.02	2.54	9.65	76.20	7.62	66.04	20.32	220.0