FAST PEAK PULSE STRETCHER

- **2 STAGE PEAK SENSE**
- **FAST INDEPENDENT RESETS**
- **HIGH INPUT IMPEDANCE**
- **INPUT GATING**

DESCRIPTION:

The ***611A Series*** Pulse Stretchers output a DC level equal to the peak value of a single narrow pulse down to 20ns FWHM. Fast independent resets facilitate processing of complex multiple events. DC outputs allow for post-processing at slower speeds.

SPECIFICATIONS:

Input	
Voltage	0 to 4V pulse
Pulsewidth	≥ 20ns FWHM, AC coupled (add -20 to part number) ≥ 50ns FWHM, AC coupled (add -50 to part number)
Impedance	50Ω (add –50 to part number) 10kΩ (add –10k to part number)
Input Gating	TTL high gives 26dB attenuation 10ns gate setup time
Output	
Voltage	0 to 4VDC up to 10mA
Gain	1.04V/V typical
Delay	< 1μs
Droop	< 0.1V/s typical at 25°C; 2 stage
Size	3.12” x 1.50” x 1.09”
Weight	3.2 oz.

Reset(s)	
Voltage	0 to 4V typical
Pulsewidth	≥ 50ns (Reset #1) ≥ 10μs (Reset #2) TTL compatible, AC coupled Separate reset for each stage
Accuracy	± 3% plus ± 20mV typical for 100mV to 4V, 20ns input pulse ± 1.5% plus ± 20mV typical for 100mV to 4V, 50ns input pulse
Power	± 11 to ± 16VDC at 45mA typical Internally regulated
Connections	
Input	BNC
Output	BNC
Reset	Pins
Gate	Pin
Power	Filter feed-thru pins and ground lug

ISO 9001 CERTIFIED

Specifications subject to change without notice.

APPLICATIONS:

Laser Pulse Capture, Laser Peak Power Monitor, Quad Detector Pulse Processing, Ultrasound Pulse Stretcher, Electronic Transient Capture

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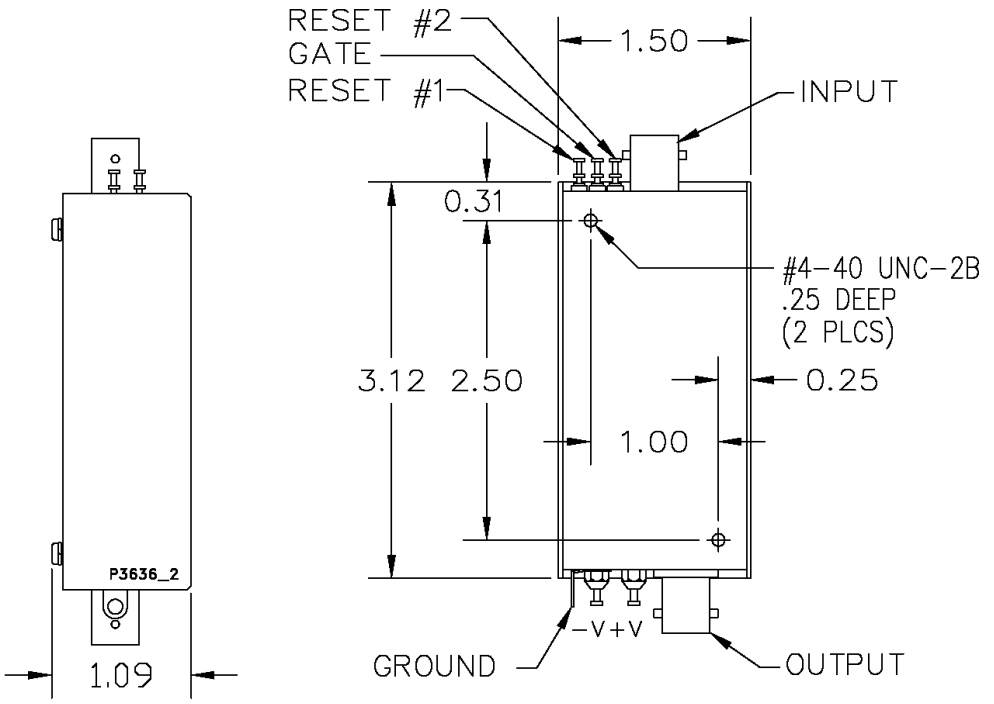
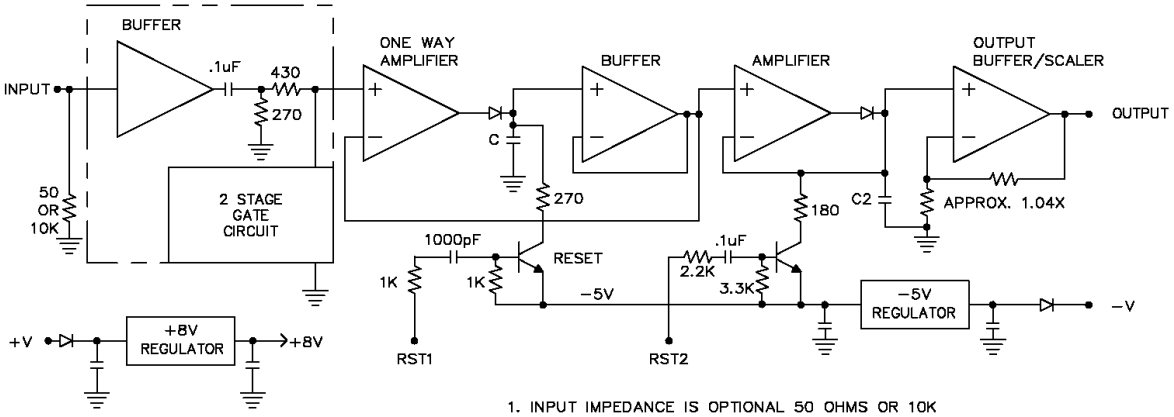
		MODEL NUMBER
		2 Stage < 0.1V/s Droop
MINIMUM INPUT PULSEWIDTH	20ns FWHM	**611A-2-20**
	50ns FWHM	**611A-2-50**

Typical Part Number: *611A-2-20-10k* =

No. of Stages:	2
Input Pulsewidth:	≥ 20ns FWHM
Gain:	1.04 typical
Droop:	≤ 0.1V/s
Input Impedance:	10kΩ



DIMENSIONS ARE IN INCHES



611A EQUIVALENT SIMPLIFIED CIRCUIT