

# DISCONTINUED Not recommended for new designs. ANALOG MODULES, INC.

## 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:**

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Input		Reset(s)	
Voltage	0 to 4V pulse	Voltage	0 to 4V typical
Pulsewidth	$\geq$ 20ns FWHM, AC coupled (add -20	Pulsewidth	$\geq$ 50ns (Reset #1)
	to part number)		≥ 10μs (Reset #2)
	$\geq$ 50ns FWHM, AC coupled (add -50		TTL compatible, AC coupled
	to part number)		Separate reset for each stage
Impedance	$50\Omega$ (add –50 to part number)		
·	$10k\Omega$ (add –10k to part number)	Accuracy	$\pm$ 3% plus $\pm$ 20mV typical for
			100mV to 4V, 20ns input pulse
Input Gating	TTL high gives 26dB attenuation		$\pm$ 1.5% plus $\pm$ 20mV typical for
	10ns gate setup time		100mV to 4V, 50ns input pulse
Output			
Voltage	0 to 4VDC up to 10mA	Power	$\pm$ 11 to $\pm$ 16VDC at 45mA typical
Gain	1.04V/V typical		Internally regulated
Delay	< 1µs	Connections	
Droop	< 0.1V/s typical at 25°C; 2 stage	Input	BNC
-		Output	BNC
Size	3.12" x 1.50" x 1.09"	Reset	Pins
		Gate	Pin
Weight	3.2 oz.	Power	Filter feed-thru pins and ground lug



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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