

# Programmable Step Attenuators



RLC Electronics' PA Series Attenuators are binary Programmable Step attenuators designed to operate from DC to 18 GHz. Two basic models offer attenuation ranges of 15, and 70

dB. Control is in standard format: 1-2-4-8, etc. The attenuators are available with failsafe or latching operation, 12 or 28 volt coils and optional TTL drivers, with a choice of frequency ranges.

## Specifications

### PA-1-2-3-4-5

Model No.	Frequency Range (GHz)	Attenuation		Attenuation Cells	VSWR (Max)	Insertion Loss (dB Max)	Accuracy (dB Max)
		Range (dB)	Steps (dB)				
PA-124	DC-5	0-15	1	1,2,4,8	1.5	1.0	+/- .5 per cell
	5-12.4				1.7	1.6	
	12.4-18 (optional)				1.9	2.0	
PA-125	DC-5	0-70	10	10, 20, 40	1.5	0.8	+/- 1.0 per cell
	5-12.4				1.7	1.3	
	12.4-18 (optional)				1.8	1.6	

**Power Rating:** 2 watts average at 25 deg C  
**Impedance:** 50 ohms  
**Life:** 1,000,000 operations  
**Connectors:** SMA Female  
**Switching Speed:** 15 milliseconds max.

**Control Power:** 12 Vdc at 185 mA nominal per cell  
 28 Vdc at 108 mA nominal per cell

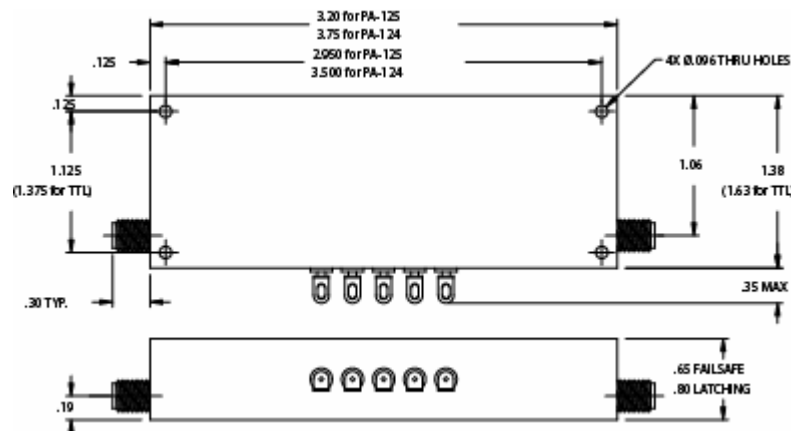
**Pulse Latching:** Optional

### To designate the attenuator desired use:

- (1) "124", "125" for model number
- (2) "H" for 12 VDC or "D" for 28 VDC
- (3) "L" for pulse latching
- (4) "TL" for TTL Driver if desired.
- (5) "5" for DC-5 GHz, "12" for DC-12.4 GHz, "18" for DC-18 GHz, "48" for 4-8 GHz, "812" for 8-12.4 GHz, "1218" for 12.4-18 GHz option

Example: PA-125-D-TL-1218 is a 0-70 dB, 12-18 GHz programmable step attenuator with 10 dB steps, 28 volt coil, and TTL drivers.

### OUTLINE DRAWING



Specifications subject to change without notification.

Tolerances unless otherwise specified are .xx +/- .02. xxx +/- .005

Specials requiring closer tolerances, different frequency ranges, special connectors different materials, finishes, etc. can be furnished upon request.



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