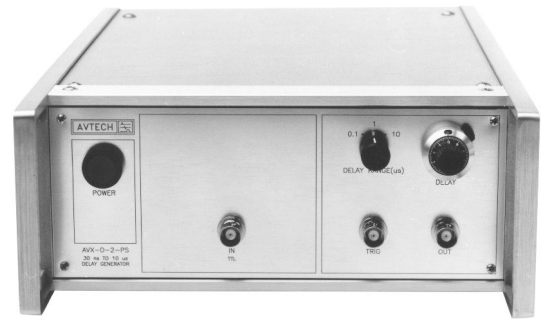


- ◆ 30 to 150 ns delays
- ◆ 30 ns to 10 us delays
- ◆ 1 us to 100 us delays
- ◆ Jitter as low as ± 10 ps
- ◆ TTL signal levels
- ◆ Will drive 50 Ohm loads



AVX-D-2-PS

The three models in the AVX-D analog delay generator series feature low-jitter variable delays in the ranges of 30 ns to 150 ns (Model AVX-D-PS), 30 ns to 10 us (Model AVX-D-2-PS), and 1 us to 100 us (Model AVX-D-3-PS). Model AVX-D-PS offers a very low jitter of ± 10 ps. Model AVX-D-2-PS exhibits a jitter of ± 30 ps at the minimum delay setting, increasing to ± 300 ps at the maximum delay setting. The jitter for the longer-delay Model AVX-D-3-PS is specified as ± 300 ps.

All signals are TTL compatible and the output pulses will drive loads as low as 50 Ohms. The IN trigger pulse in all models is split into an output TRIG pulse (equal to the width of the IN pulse and delayed by about 20 ns) and an OUT pulse having a fixed width

of about 250 ns. The delay between the leading edges of the IN and OUT pulses in Model AVX-D-PS (30 to 150 ns) is controlled via a one-turn control, while the delay in Models AVX-D-2-PS and AVX-D-3-PS (30 ns to 10 us and 1 us to 100 us, respectively) is controlled by 10-turn dial reading pots and range switches.

Model AVX-D-PS is also available with an optional electronic delay control (0 to +10 Volts).

The input and output waveforms for the various models are illustrated above .

The units will operate at PRF as high as 1.0 MHz provided the delay setting does not exceed one-half of the period of the PRF.

Model:	AVX-D-PS	AVX-D-2-PS	AVX-D-3-PS
Delay range ¹ :	30 ns to 150 ns	30 ns to 10 us (3-position range switch)	1 us to 100 us (2-position range switch)
Jitter: (Ext trig in to pulse out)	± 10 ps	± 30 ps to ± 300 ps max	± 300 ps
Output amplitude:	TTL logic levels (i.e., 0 and +3 to +5V). Will drive 50 Ohm loads		
Trigger required:	TTL logic levels (i.e., 0 and +3 to +5V), > 50 ns pulse width.		
OUT pulse width:	250 ns		
Trig PW:	Equals input PW		
PRF:	0 to 1 MHz	0 to 1 MHz (50% max duty cycle)	0 to 50 kHz (50% max duty cycle)
Connectors:	Out: BNC, Trig: BNC, In: BNC		
Power requirement:	100 - 240 Volts, 50 - 60 Hz		
Dimensions: (H x W x D)	100 mm x 215 mm x 375 mm (3.9" x 8.5" x 14.8")		
Temperature range:	+5°C to +40°C		

1) For electronic control (0 to +10 V) of delay in Model AVX-D-PS suffix model the number with -ED.