



Pulser

Pulse Type Negative spike pulse.

Initial Transition (Fall Time) <5 ns (10-90%) typical.

Pulse Amplitude Variable from 100V to 475V maximum. Amplitude depends on Energy, Damping, Amplitude, and Impedance control settings. 900V Amplitude option available.

Pulser Energy Selectable in 4 steps.

Pulse Impedance High or Low, user-selectable.

Pulse Duration Typically 10 - 70 ns FWHM for 50 Ω load. Function of the Energy, Impedance, and Damping settings.

Damping 16 Damping settings: 24.6, 26.3, 28.1, 30.3, 32.7, 35.7, 39.2, 43.5, 48.7, 55.6, 64.5, 76.9, 95.2, 125, 182, 333 Ω .

Mode Pulse-echo or through transmission. User-selectable.

Through Trans. Isolation Typically 80 dB at 10 MHz.

Pulser Repetition Rate Internal: 100 - 5 KHz, External: 0 - 5 KHz, Internal oscillator frequency user-selectable in 16 steps.

Sync Output Maximum +5V, $t_r < 30$ ns, $t_w = 200$ ns. min., TTL and CMOS compatible.

Pulse Trigger Source Internal oscillator and external source. User-selectable.

External Trigger Input 3 - 5 V positive going pulse. Triggering will occur on leading edge. TTL and CMOS compatible.

Receiver

Gain -13 to 66 dB in 1 dB steps

Phase 0° (noninverting)

Input Impedance 500 Ω (through transmission)

Bandwidth .001 - 35 MHz (-3 dB)
.001 - 50 MHz (-3 dB) bandwidth option available.

High Pass Filter 1.0, 2.5, 5.0, 7.5, 12.5 MHz.

Low Pass Filter 3, 7.5, 10, 15, 22.5 (35 MHz BW) or 5, 10, 15, 22.5, 35 (50 MHz BW)

Noise Typically 49 μ Vp-p input referred (60 dB gain, 35 MHz BW). Typically 59 μ Vp-p input referred (60 dB gain, 50 MHz BW).

Output Impedance 50 Ω Out-

Computer

Computer Interface Bi-directional communication via RS-232 serial link using RJ45 type 8-conductor cable. 6' cable length standard. Other lengths available.

Software The Windows-based Control Panel application and a Windows SDK are provided for custom application development.

Miscellaneous

Power 100/120/220/240 VAC, 50/60 Hz, 30 W

Dimensions 8.5" W x 3.5" H x 12" D

Weight 10 lbs. (4.54 Kg)