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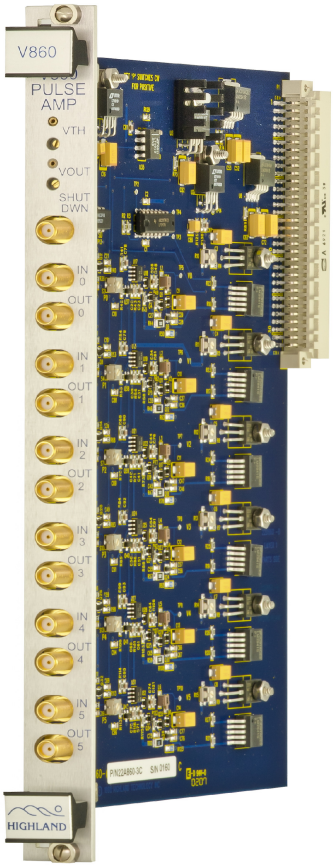
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HIGHLAND TECHNOLOGY

V860 pulse amplifier

Features

- Outputs up to 10 volts into 50 ohms
- Sub-nanosecond risetime: 400 picoseconds typical at 10 volts
- Low added jitter: 3 picoseconds RMS typical
- Adjustable input threshold and polarity allow input from ECL, TTL, NIM, and other logic levels
- Channel cascade feature allows multiple pulse fanout configurations



The V860 is a multichannel pulse amplifier packaged as a standard VME module. It accepts logic-level inputs and generates high-level, very fast positive output pulses.

18 Otis Street San Francisco, CA www.HighlandTechnology.com tel: 415 551-1700 fax: 415 551-5129

Specifications : V860 pulse amplifier

FUNCTION	Multichannel digital pulse amplifier
INPUTS	Six logic inputs, threshold from -2.5 to +2.5 volts, common trimpot adjustment, factory set to +1.25 volts Maximum safe input is ±4 volts Per-channel switches are provided to select input polarity and input termination, 50Ω to ground or high impedance Factory setting is positive, terminated Channel inputs may be cascaded such as to drive multiple outputs from one input One common TTL-level GATE input disables all outputs when pulled low
OUTPUTS	Six positive pulses, active pullup, passive pulldown; customer termination to ground is required Pulse amplitude is adjustable from +4 to +10 volts into a 50Ω load, with common adjustment for all channels Factory set to +5 volts Pullup output impedance is 2Ω nominal; pulldown is 500Ω nominal Output current limit is 300 ma peak, 80 ma average Risetime 500 ps max; falltime 5 ns max
PROPAGATION DELAY	Rising edge, 3.5 ns typical; falling edge, 10 ns typical
JITTER	Rising edge, less than 5 ps RMS added jitter Falling edge, less than 25 ps RMS added jitter
OPERATING TEMPERATURE	0 to 60℃; extended MIL/COTS ranges available
CALIBRATION INTERVAL	One year
POWER	Standard VME supplies: +5 volts, 200 mA max +12 volts, 360 mA max (plus load current) -12 volts, 150 mA max
CONNECTORS	V860-1 SMB V860-2 LEMO V860-3 SMA
PACKAGING	Single-wide 6U VME module
CONFORMANCE	VMEbus per ANSI/VITA 1-1994 (R2002) The module does not interface to the VME data bus, and passes all VME grant lines

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