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PM 5786B 125 MHz Pulse Generator Specifications

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Time Parameters	<p>Pulse repetition period: 8 ns to 1s (1 Hz to 125 MHz).</p> <p>Pulse delay: 8 ns to 100 ms.</p> <p>Pulse duration: 3.5 ns to 100 ms.</p> <p>Transition times: 2ns ± 10% to >100 ms, Corresponding to 10% and 90% of pulse amplitude. For ECL testing, the minimum transition time is 1.4 ns, corresponding to 20% and 80% levels.</p> <p>Jitter: 0.1% of setting ±50 ps</p>
Main Pulse Characteristics	<p>Outputs: 2 channels, A and B. Pulse amplitude: 0.2V to 5V (at $Z_L = 50\Omega$), double amplitude at open output, within the range ± 6V. DC offset: -2.5V to +2.5V (at $Z_L = 50\Omega$), ± 5V at open output. Max output voltage: Pulse amplitude plus DC offset is max ± 6V. Maximum 10V open output amplitude can be achieved provided the signal is in the range ± 6V.</p> <p>Waveform aberrations: Less than 5% +10 mV; less than 10% for transition times 2 to 5ns. Source resistance: $50\Omega \pm 5\%$. Source impedance: $50\Omega \pm 10\%$. Output protection: Against short-circuit, open-circuit and transients (3000 mA/1us, 600 mA/1 sec). Pulse modes: Single pulse (delayable), Double pulse or Symmetrical pulse $50\% \pm 1\%$ (1 Hz to 1 MHz); $50\% \pm 10\%$ (1 MHz to 125 MHz)</p> <p>Normal or complementary, switchable. Output modes: Bipolar: Simultaneously positive and negative polarity. Positive: Positive polarity, normal and complementary. Negative: Negative polarity, normal and complementary.</p>
External Operating Modes	<p>Trigg: Externally triggered pulse repetition DC to 125 MHz or manual single shot. Gate: Synchronous gating — external input signal starts and stops the generator. Burst: (PM 5786B only) Internally generated burst with push wheel selection of number of pulses 0 to 9999, started by external input signal or manual control. External duration: External duration gives pulses with same duration and repetition rate as external input signal, all other pulse parameters are set via the generator.</p>

External Input	Range: DC to 125 MHz, minimum pulse duration 3.5 ns. Input voltage range: 0.5 to 15V pp Coupling: DC Input impedance: 1 M Ω /25 pF. Trigger level: -3V to +3V Trigger slope: + and - Trigger indicator: Tri-state LED, blinking for proper triggering. Max input voltage: 260V rms at < 440 Hz, reducing to 15V pp at 125 MHz.
Internal Clock Output	Main output pulse is delayable: with respect to internal clock output, which therefore can be used as pre-trigger. Amplitude: +2.5V into 50 Ω Output impedance: 50 Ω (typical). Transition time: Approximately 1 ns. Pulse duration: Symmetrical pulse, 50% \pm 1% (1 Hz to 1 MHz), 50% \pm 10% (1 MHz to 125 MHz). Output protection: Against short-circuit, open-circuit and transients. Time setting error indicators: Warning for erroneous settings of excessive times for pulse delay, pulse duration, leading and trailing transition times, indicated with 4 LEDs.
Power Requirements	Line: 100V, 120V, 220V and 240V rms \pm 10%. 120 VA, 50 to 60Hz.
Safety	CE-regulation 73/23 EN61010-1 CAT II: Pollution Degree 2
EMC	CE regulation 89/336: Emission according to EN 550081-1, EN 55022 Class B, EN 60555-2 Immunity according to EN 50082-1, inclusive IEC 801-2, -3, -4, -5
Dimensions and Weight	Maximum dimensions: Height: 145 mm (5.7 in) Width: 300 mm (11.8 in) Depth: 470 mm (18.5 in) Weight: Net 9.5 kg (21 lb) Shipping: 11.5 kg (25 lb)
Climatic Conditions	Ambient temperature: Rated range of use 0°C to +50°C. Storage and transport -40°C to +70°C. Relative humidity: Rated range of use 10.90% RH, non-condensing. Storage and transport 5.95% RH. Barometric pressure (altitude): Rated range of use 5000m (15000 ft) - 53.3 kN/m ² . Storage and transport 15000m (50000 ft) - 15.2 kN/m ² .
Standard Accessories	<ul style="list-style-type: none"> ● 1 manual ● 1 mains flex cord ● 1 fuse 800 mA delayed action ● 1 fuse 1.6A delayed action