

Electrical Pulse Generator



Applications

- Electrical driver for high speed laser diodes
- Characterization of ultrafast electrical instruments
- Stable electrical clock source

Features

- Repetition rate up to 5 GHz
- Pulse Width tunable from 50 to 200 ps
- Output amplitude 0.5 to 7 V
- Added timing jitter less than 2 ps

The ultrafast electrical pulse generator (EPG) series is a range of electrical pulse generators with up to 5 GHz repetition rate. The EPG series offers excellent stability and reliability with turnkey operation. Along with a portable design, EPG-01 offers user-friendly front panel control knobs for flexible adjustment of pulse width and output power. The pulse width is tunable from 60 to 200 ps and the added timing jitter is as low as 2 ps. EPG-01 offers high pulse amplitude, up to 7 V peak to peak, and is triggered by either a sinusoidal wave or a random impulse.

Technical Specifications

Model Number	EPG-01	
Output Pulse Characteristics		
Output Pulse Width (ps)	60 ~ 200 (tunable)	50 ~ 60 (tunable)
Maximum Output Amplitude (V)	3 (60 ps) ~ 7 (200 ps)	0.5 (50 ps) ~ 3 (60 ps)
Timing Jitter (ps)	<2.0	
Coupling	AC (50 Ω impedance)	
Trigger Input Characteristics		
Repetition Rate (MHz)	10 ~ 2000 (adjustable)	2000 ~ 5000 (adjustable)
Sine Wave Power (dBm)	-3 ~ +3	
Square Wave Voltage (Vp-p)	0.4 ~ 0.9	
Coupling	AC (50 Ω impedance)	
Other Parameters		
Connector	SMA	
Operating Temp ($^{\circ}$ C)	0 ~ 50	
Operating Voltage (VAC)	85 ~ 264	
Dimensions (cm)	34(w) x 42(d) x 9(h)	

Due to our continuous improvement program, specifications are subject to change without notice.

