

Picosecond pulse generator PPG0121

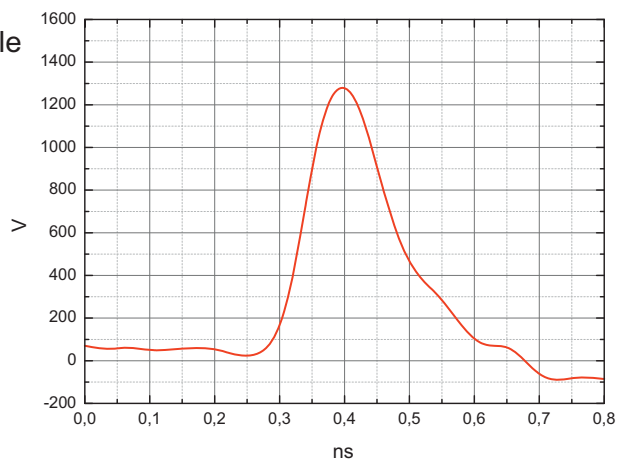


- Compact and reliable
- Long operation life time
- High frequency
- High voltage rise rate
- Low jitter

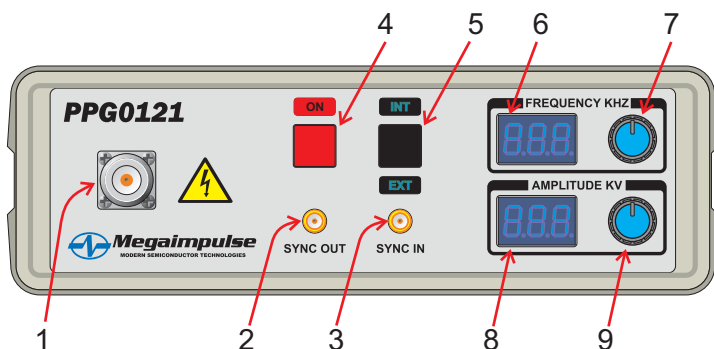
Based on Drift Step Recovery Diodes (DSRD) and Silicon Avalanche Shapers (SAS) - new types of semiconductor devices which allow obtaining best-in-class voltage rise rate, high reliability, low jitter and long operation lifetime.

PPG0121 is a laboratory pulse generator designed for the prototyping of ultra-wideband (UWB) radars and communication systems as well as other applications which require high voltage picosecond rise time pulses. The generator has internal and external triggering as well as a wide amplitude adjustment range. Very low jitter of PPG0121 allows precise synchronization with other equipment or synchronization of many generators in the array.

Amplitude	0.4 ... 1.2 kV, smooth adjustable
Pulse polarity	positive
Rise time	70 ps
Pulse width	150 ps (FWHM)
Repetition rate	1 Hz ... 100 kHz
Jitter (RMS)	10 ps
Output connector	N type
SYNC IN connector	SMA type
SYNC OUT connector	SMA type
Triggering pulse	+5V, 10 ... 100ns width
Power supply	AC 110 ... 230V, 50/60Hz
Size	205x204x64mm ³



Typical output pulse waveform



- 1 - N-type output connector
- 2 - SMA type SYNC OUT connector
- 3 - SMA type SYNC IN connector
- 4 - HV pulses ON/OFF button
- 5 - INT/EXT triggering button
- 6 - Set frequency 3-digit display
- 7 - Frequency rotation knob
- 8 - Set amplitude 3-digit display
- 9 - Amplitude rotation knob