

Picosecond pulse generators

PPG-1.5/50 and PPG-1.5/100



- 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 to obtain best in class voltage rise rate, high reliability, low jitter and long operation life time.

PPG-1.5/50 and PPG-1.5/100 are laboratory pulse generators designed for prototyping of ultra wide band (UWB) radars and communication systems as well as other applications which require high voltage picoseconds rise time pulses. Compact and reliable they provide very short high repetition rate 1.5kV pulses. Very low jitter allows precise synchronization with other equipment or synchronization of many generators in the array. The generators have external triggering only.

Pulse amplitude (p-p)	1.5 .. 2 kV
Pulse polarity	positive
Pulse rise time (fast part)	70 ps
Pulse width (FWHM)	300 ps
Max repetition rate	50 kHz 100 kHz
Jitter (RMS)	10 ps
Output connector	N type
Input triggering connector	SMA type
Triggering pulse	+5V, 10..100ns width
Power supply	AC 110..230V, 50/60Hz
Dimensions	205x204x64mm ³

