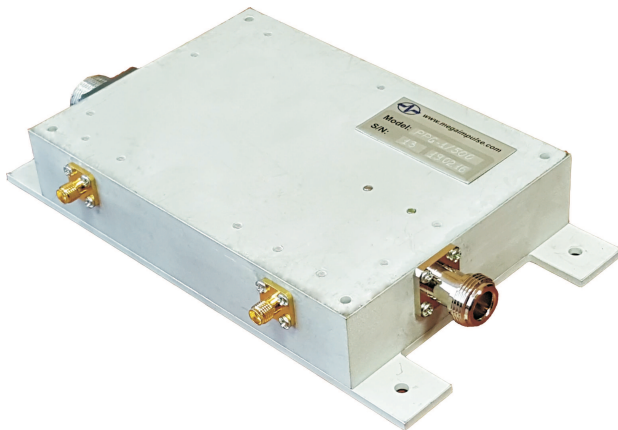


# Subnanosecond pulse generator for UWB radar



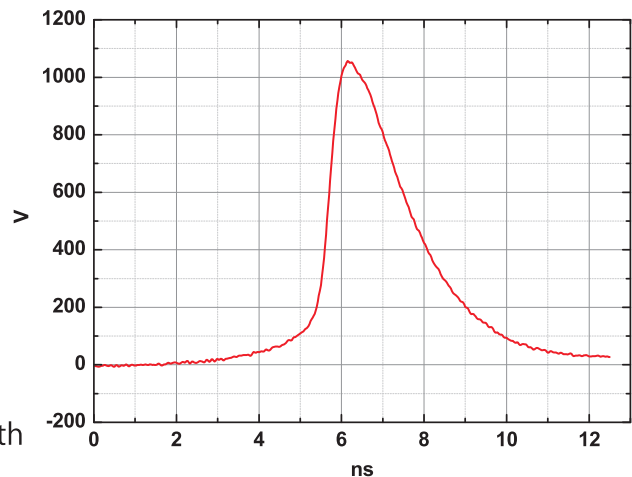
## PPG-1/500

- Compact
- High efficiency and high output power
- Long operation life time

Based on Drift Step Recovery Diodes (DSRD), new type of semiconductor devices which allow to obtain high reliability, high efficiency and long operation life time.

PPG-1/500 pulse generator has been designed for medium power ultra wide band (UWB) radars, radar systems and phased antenna arrays as well as other applications which requires high voltage subnanosecond rise time pulses. Compact, reliable and high efficient it provides 20 W mean output power. The generator has over frequency protection, single DC power supply and embedded 1:100 divider for monitoring of output pulse waveform and position.

Pulse amplitude	1 kV
Pulse polarity	positive
Pulse rise time	600 ps
Pulse width (FWHM)	2 ns
Max repetition rate	500 kHz
Jitter (RMS)	10 ps
Spectrum range (-6dB)	200 MHz
Mean output power	20 W
Output connector	N type
Input triggering connector	SMA type
Triggering pulse	+5V, 10..50ns width
Power supply	DC +24V, 2A



Output pulse waveform

