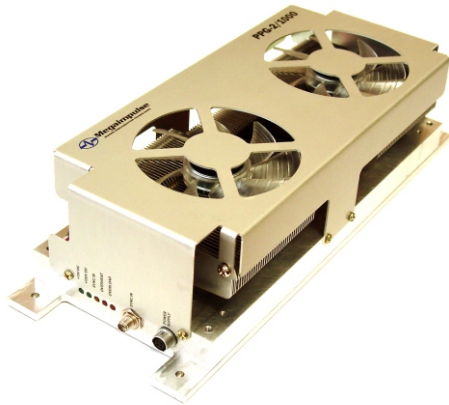


Subnanosecond pulse generator for UWB radar

PPG-3/200

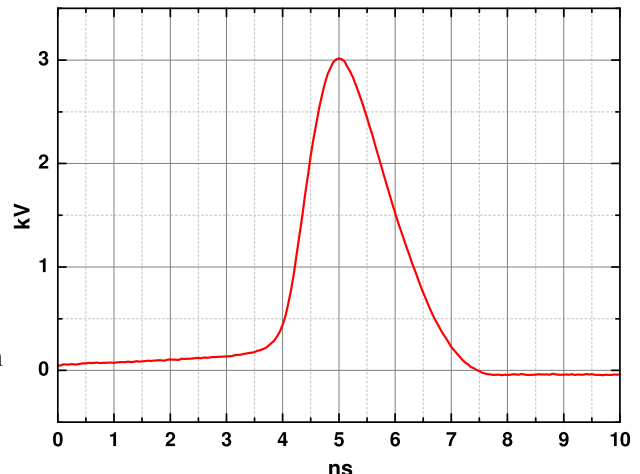


- Compact
- High efficiency and high output power
- Long operation life time

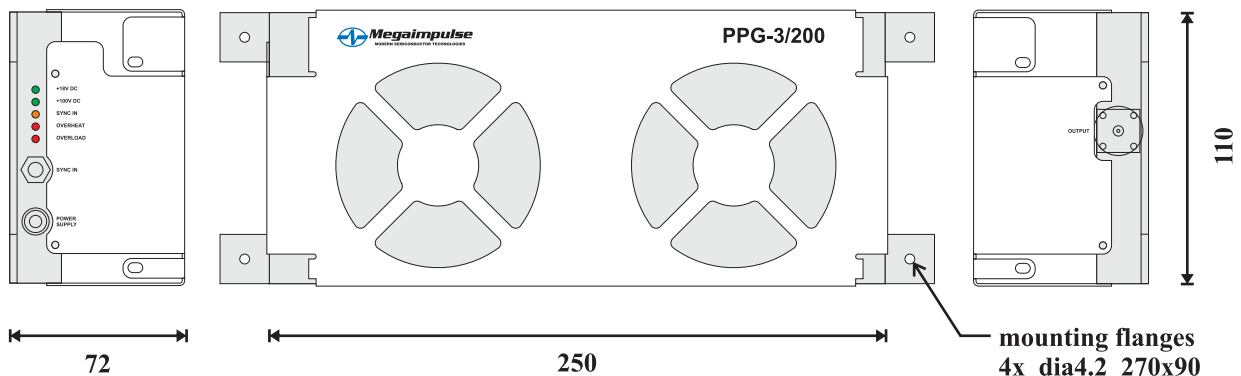
Based on Drift Step Recovery Diodes (DSRD), new type of semiconductor devices which allow to obtain high reliability, high efficiency and long operation life time.

PPG-3/200 pulse generator is designed for high performance 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 50 W mean output power. The generator has over temperature and over frequency protection, power supply on and triggering LED indicators. The cooling of the generator is by forced airflow.

Pulse amplitude	3 kV
Pulse polarity	positive
Pulse rise time	600 ps
Pulse width (FWHM)	1.7ns
Max repetition rate	200 kHz
Jitter (RMS)	40 ps
Spectrum range (-6dB)	300 MHz
Mean output power	50 W
Output connector	N type
Input triggering connector	SMA type
Triggering pulse	+5V, 10..50ns width
Power supply	DC +150V, 1A; DC +18V, 1A



Typical output pulse waveform



*) All dimensions are in mm