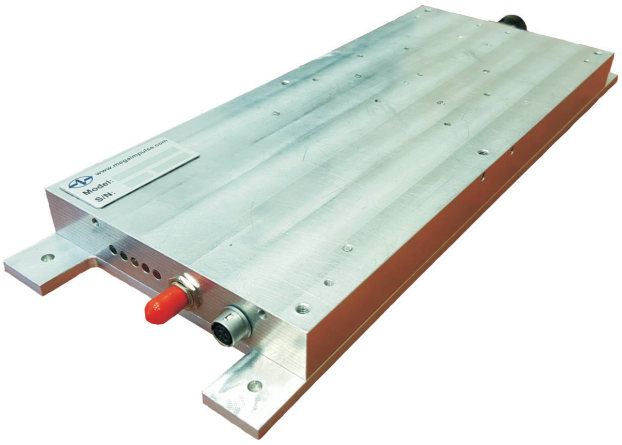
Megaimpulse
MODERN SEMICONDUCTOR TECHNOLOGIES

Subnanosecond pulse generator for UWB radar



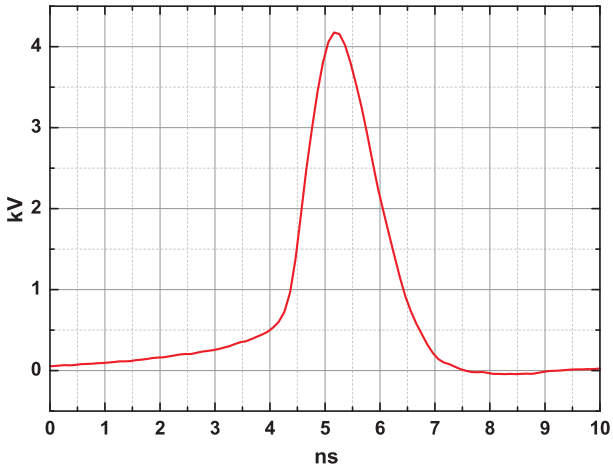
PPG-4/100

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

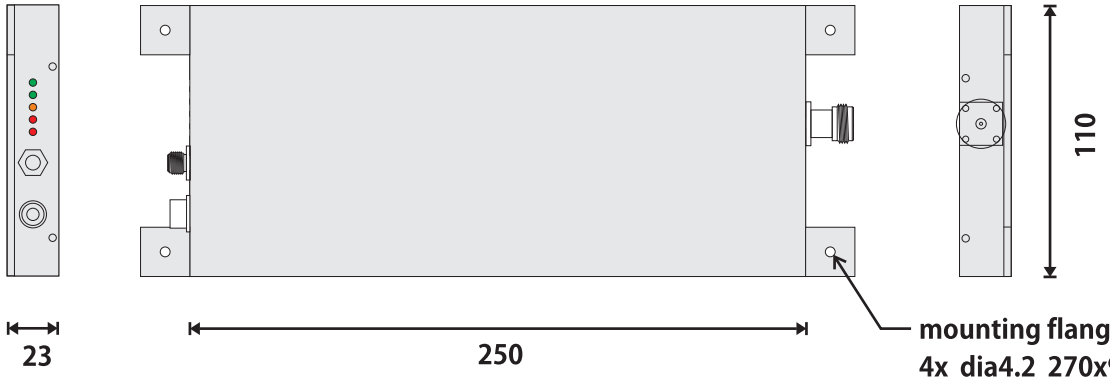
Based on Drift Step Recovery Diodes (DSRD), new type of semiconductor devices which allow to obtain high reliability, high efficiency and long operation life time.

PPG-4/100 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 40 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	4 kV
Pulse polarity	positive
Pulse rise time	600 ps
Pulse width (FWHM)	1.5ns
Max repetition rate	100 kHz
Jitter (RMS)	30 ps
Spectrum range (-6dB)	300 MHz
Mean output power	40 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 the dimensions are in mm,
The size can be changed without notice

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