

Pulse generator module PPM0531

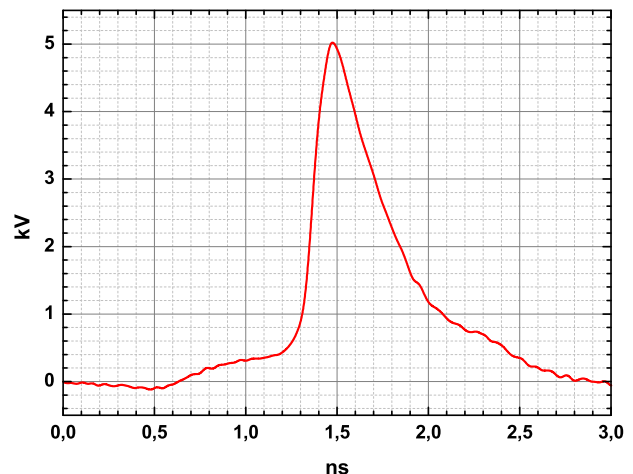


- Compact
- Long operation life time
- Extremely high voltage rise rate
- Low jitter

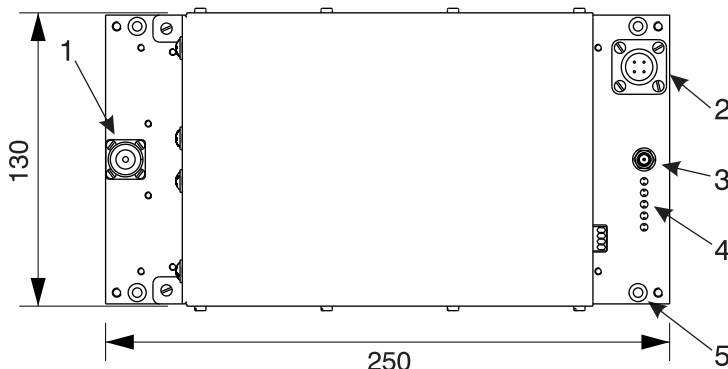
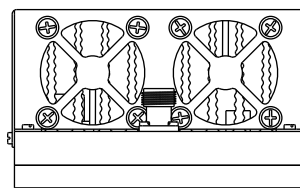
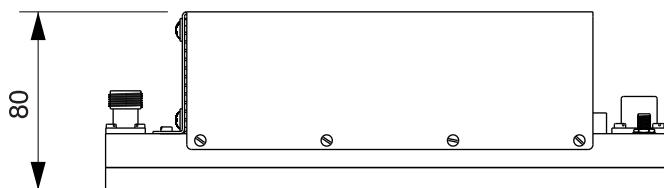
Based on Drift Step Recovery Diodes (DSRD) and Silicon Avalanche Shapers (SAS) - new types of semiconductor devices which allow obtaining best-in-class voltage rise rate, high reliability, low jitter and long operation life time. PPM0531 pulse generator module has been designed for ultra wide band (UWB) radars and communication systems as well as for other applications which requires high voltage picoseconds range rise time pulses.

Compact and reliable it provides narrow waveform pulses with up to 50 kV/ns rise rate. PPM0531 has external triggering only and is equipped with external AC-DC switching power supply.

Pulse amplitude (p-p)	4.5 ... 5.5 kV
Pulse polarity	positive
Pulse rise time (fast part)	<200 ps
Pulse width (FWHM)	<500 ps
Max repetition rate	25 kHz
Jitter (RMS)	20 ps
Output connector	N type
Input triggering connector	SMA type
Triggering pulse	+5V, 100ns width
Power supply	DC +24V, 0.3A DC +150V, 0.3A
Dimensions	250 x 130 x 80 mm ³



Typical output pulse waveform



- 1 - output N-type connector
- 2 - power supply connector
- 3 - input triggering SMA connector
- 4 - control LED
- 5 - 4x mounting holes, 4 mm dia, 222x118 mm footprint