PLCS-40

Rev. 1905

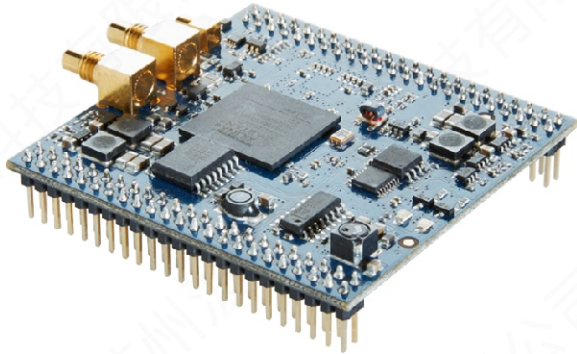### Fully digital controlled analog arbitrary Pulse Generator

- Independent analog arbitrary function generator
- Freely programmable
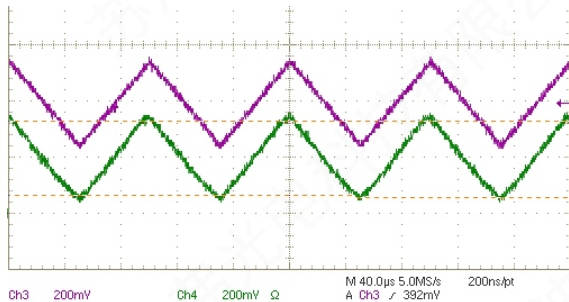- 400 MHz DAC spectrum
- 5 ns .. 320 ns pulse width

Figure: Analog waveform

Technical Data*

Output	5 ns .. 320 ns (arbitrary signal shape) 2 ns .. cw (digital signal shape)
Data (arbitrary signal):	
Analog bandwidth	400 Mhz, 2.5 ns sample rate
DAC Resolution	>100 Mhz
Storage capacity	16 bit 515 points of each 16 bit (32 freely programmable curve shapes with max. 128 values at a pulse width of max. 320 ns)
Data (digital signal):	
Min. pulse width	2 ns
Max. pulse width	cw
Min. repetition rate	1 Hz
Max. repetition rate	200 kHz
Supply voltage	+15 V
Coaxial output	-0.5 V .. 2.5 V into 50R -1 V .. 5 V into 1M
Trigger Inputs	50 Ω, 5 V, SMC connector 500 Ω, 5 V, 2-Pin connector
Interfaces	PLB-21
Dimensions in mm	61 x 60 x 22
Weight	50 g
Operating temperature	0 to +55 °C

* Technical data is subject to change without further notice.
** See manual for details.

Product Description

The PLCS-40 is a freely programmable arbitrary pulse generator (pulsed-AWG).
The internal storage allows to generate up to 32 different freely programmable curve shapes. The maximum repetition rate is 200 kHz.
A very fast 16 bit-DAC generates pulse lengths from 10 ns to 320 ns.
The PLCS-40 is the perfect choice in combination with our laser diode drivers LDS-VRM 005, BFS-VRM 03 or BFPS-VRHSP 02.
The pulse generator is offered for those who require specific pulse shapes in order to modulate currents. Pulses with variable rise- and fall times or modified pulse shapes are possible.
Typical applications are driving seed laser diodes or other laser diodes for materials processing, LIDAR systems, laser communication and range finding.
The driver operates from a single +15 V supply voltage.

Optional Accessories: PLB-21
Compatible Products: LDS-VRM 005
                        BFS-VRM 03
                        BFPS-VRHSP 02