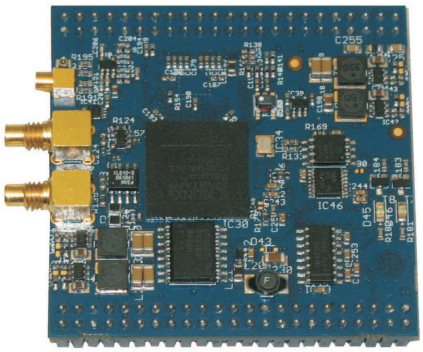
PicoLAS
FOCUSSING POWER TO THE POINT

Revision 1301

PLCS-40

Fully digital controlled analog arbitrary pulse generator



- Independent analogue arbitrary function generator
- Freely programmable
- 400 MHz DAC spectrum
- 2 ns ... cw pulse width

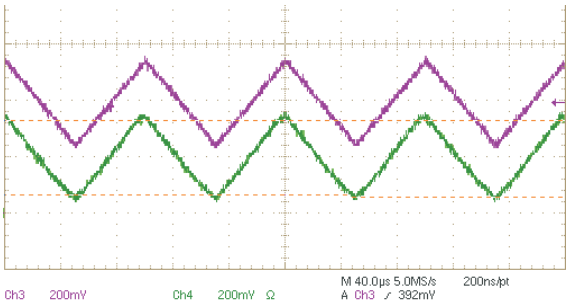


Figure: Analog waveform

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 LDP-VRM 005 or BFS-VRM 03.

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 laserdiodes for materials processing, LIDAR systems, laser communication and rangefinding.

The driver operates from a single +15 V supply voltage.

Technical Data:*

Outout	2 ns ... cw (10 ns ... 320 ns arbiträry programmable curve shapes)
Data (arbitrary part):	
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 (pulse generator):	
Min. pulse width	2 ns
Max. pulse width	cw
Min. repetition rate	1 Hz
Max. repetition rate	200 kHz
Supply voltage	+15 V
Coaxial 50 Ohm output	Generator voltage: 6 V Maximum load: 50 Ω
Trigger Inputs	50 Ω, 5 V, SMC connector 500 Ω, 5 V, 2-Pin connector
Interfaces	PLB-21
Dimensions	61 x 60 x 22 mm
Weight	50 g
Operating temperature	0 to +55 °C

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

Optional Accessories: PLB-21
Compatible Products: LDP-VRM 005
BFS-VRM 03