Integrated Clock Progammable Electrical Pulse Generator

IPG-300M

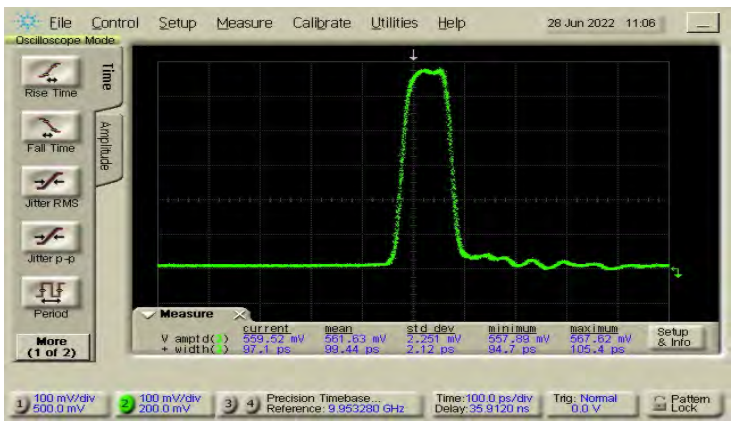


- Pulsewidth tuning range of 100ps~10ns (Optional 50ps~10ns)
- Pulsewidth tuning resolution of 1ps
- Built-in clock with frequency range 100kHz~1GHz

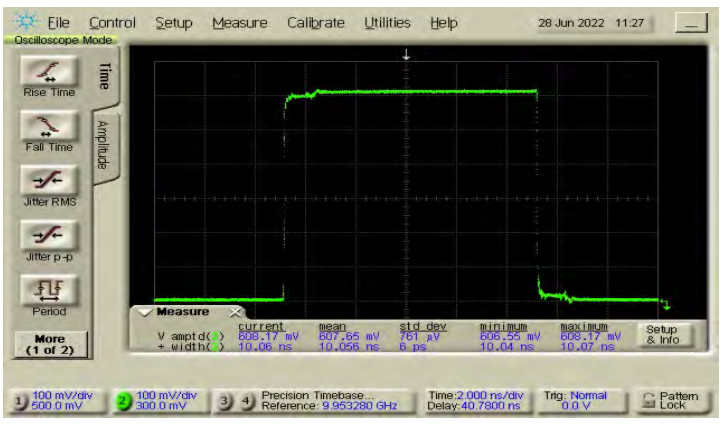
Specification

	Item		Min.	Typ.	Max.	Unit
Clock Output Ports TRIG. PORT, CH1, CH2	Output Clock Frequency		0.0001 (100kHz)		1.000	GHz
	Output Clock Amplitude		300	500		mVpp
	Output Coupling			AC Couplling, Single Ended		
	Output Clock Shape			Rectangular		
	Rise/Fall Time (20% to 80%)			100	150	ps
	Duty Cycle			50	55	%
	Clock Jitter (RMS)			100	500	fs
	Output Impedance			50		Ohm
External Clock (External clock is not required but customer can input external frequency to synchronize with built-in clock)	External Clock Frequency		9.9	10.0	10.1	MHz
	External Clock Amplitude		200	450	1000	mVpp
	External Clock Duty Cycle			50		%
	External Clock Input Resistance (SE)			50		Ohm
Pulse Output Ports OUTPUT +, OUTPUT -	Pulse Shape			Square		
	Pulse Frequency		0.0001 (100kHz)		1.000	GHz
	Pulse Width Tuning Range (FWHM)	"0100"	100		10,000	ps
	Extended Pulse Width Range (FWHM)	"0050"	50		10,000	ps
	Tuning Resolution			1	2	ps
	Rise / Fall Time (20 - 80 %)		15		20	ps
	Output Coupling			AC Couplling, Single Ended		
	Output Voltage	(Standard)[1]	0.4	0.5	0.6	Vpp
		(High-Voltage Option, "A")[2]		> 5.0		Vpp
	Additive Timing Jitter			< 0.7		ps
	Output Impedance			50		Ohm
Electrical Interface	External Clock Input (EXT. CLK)			Advanced SMA x 1		
	Trigger Clock Output (TRIG. OUTPUT)			Advanced SMA x 1		
	Clock Output (CH1, CH2)			2 Ports, Advanced SMA x 2		
	Pulse Output (OUTPUT +, OUPUT -)			2 Ports, Advanced SMA x 2		
	Power Supply Conenctor			DC Jack, 2.1mm ϕ or MIL14 Pins: Pin1(5V), Pin14(Gnd)		
	PC Interface Connector			Micro USB (Virtual COM Port) MIL14 Pins, 2.5mm for UART LVTTL 3.3V		
	Power Supply	(Module)		DC5V,2A		
Operating & Storing Environment	Operating Temperature		15		40	°C
	Storage Temperature		-20		70	°C
Physical	Diemnsion (W x H x D)	(Module)		100 x 26 x 74		mm
	Weight	(Module)		< 200		g

(1) Standard version output amplitude is 0.4~0.6Vpp. (2) High voltage of >5Vpp option only available in benchtop version.



100ps Pulsewidth @ Clock Freq. 1MHz



10,000ps Pulsewidth @ Clock Freq. 1MHz

Ordering Information

IPG-300M-XXX-S-P(N)-T-N

ATTENTION

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