

20ps/25ps Electrical Pulse Generator

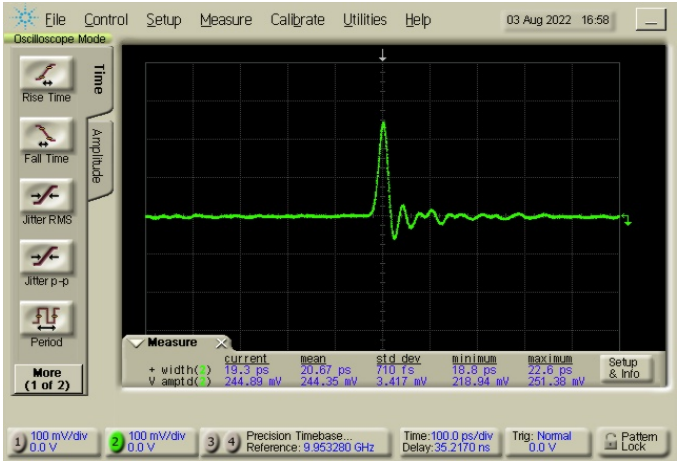
EPG-220

- Generate high-speed electrical pulses of 20ps/25ps
- Fast rise / fall time of 10ps, low jitter
- Pulse on-demand at repetition rates up to 10GHz

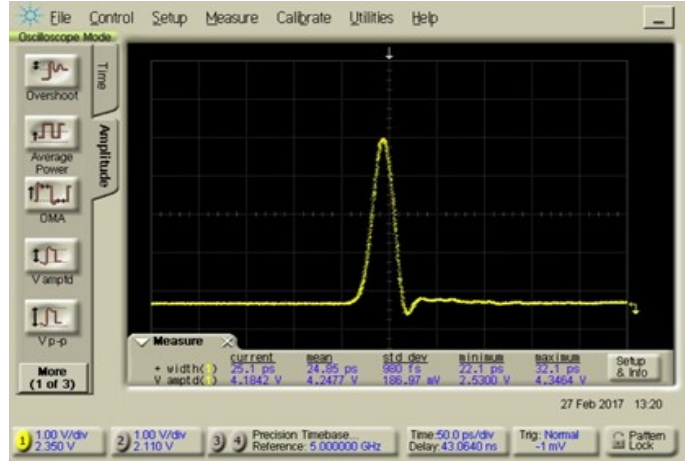
Specification

Item		FWHM = 20ps	FWHM = 25ps	Unit
Input Characteristics	Signal Type ¹	Square		
	Input Clock Level	0.3 ~ 0.5		Vpp
	Internal Clock	(Built-in Clock "C", Optional) NIL	Yes	
	Frequency Repetition Rate (Standard Frequency "SF")	0.0001 ~ 10	0.0001 ~ 1	GHz
	(Single Shot "SS", Optional)	Single-shot ~ 10 GHz	Single-shot ~ 1 GHz	
Output Characteristics	Pulse Width (FWHM) ³	20 (-1/+2)	25 (+/- 2)	ps
	Pulse Width Tunability	NIL	200	ps
	Rise / Fall Time (20 - 80 %)	10	12	ps
	Output Voltage	(Standard) ⁴ > 0.20	NIL	Vpp
		(High-Voltage "A", Optional)	NIL	, > 3.0 Vpp
	Additive Timing Jitter	< 0.5		ps
Electrical	Input/Output Coupling	Standard Frequency: Input AC / Output AC Single-shot Option: Input DC / Output AC		
	Input/Output Impedance	50		Ohm
	Input/Output Connector	Input Advance SMA Connector, Output K-Connector		
	Power Supply	(Module) (Benchtop)	DC+3.3V, 2A	AC100~240, 50/60H
Control	PC Interface	NIL	USB (Only with Built-in Clock Option)	
Operating & Storing	Operating Temperature	10 ~ 40		°C
Environment	Storage Temperature	-20 ~ 65		°C
Physical	Diemnsion (W x H x D)	(Module) 49 x 16 x 64 or TBD		mm
		(Benchtop)	236 x 88 x 380	mm
	Weight	(Module) (Benchtop)	65	< 5

(1) Use square wave for minimal additive jitter, particularly at repetition below 100MHz. (2) Repetition rate can be tuned by tuning the input clock frequency. Max. repetition rate is limited by pulse width. Please inquire for operation at <100kHz. The device can also be triggered on-demand within the specified frequency range. (3) Output pulsewidth may vary +2~3ps depending on the operating frequency, (4) Voltage for single-ended output. (5) Available for benchtop size, single-ended output only. Rise/fall times, and hence pulse width, may increase by a few ps. The output voltage may vary with pulse repetition rate.



20ps Pulsewidth, 0.25Vpp @ Clock Freq. 1MHz



25ps Amplified Pulsewidth, 4Vpp @ Clock Freq. 1MHz

Ordering Information

EPG-220M-0020-S(D)-P(N)-F-N-SF(SS)
EPG-220B-0025-S-P(N)-T(F)-A-SF(SS)-C(N)

M: Module, S: Single-ended, P: Positive, T: Tunable, A: Amplifier, SF: Standard Frequency, C: Built-in Clock Generator
B: Benchtop, D: Differential, N: Negative, F: Fixed, N: No Amplifier, SS: Single Shot, N: No Clock Generator