

22ps/25ps Electrical Pulse Generator

EPG-220

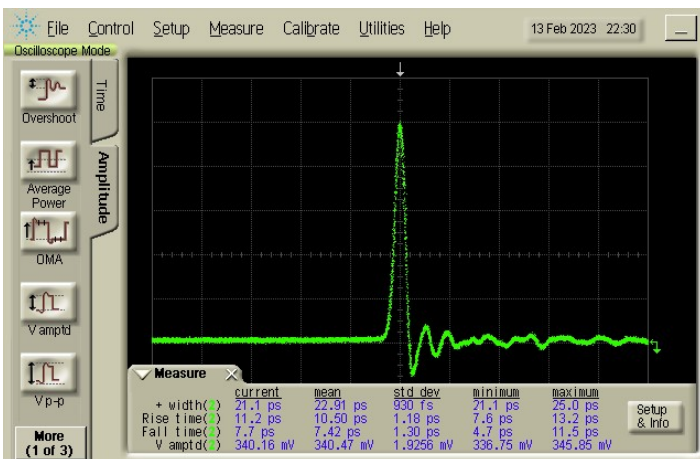
- Generate high-speed electrical pulses of 22ps/25ps
- Fast rise / fall time of 10ps, low jitter
- Pulse on-demand at repetition rates up to 10GHz



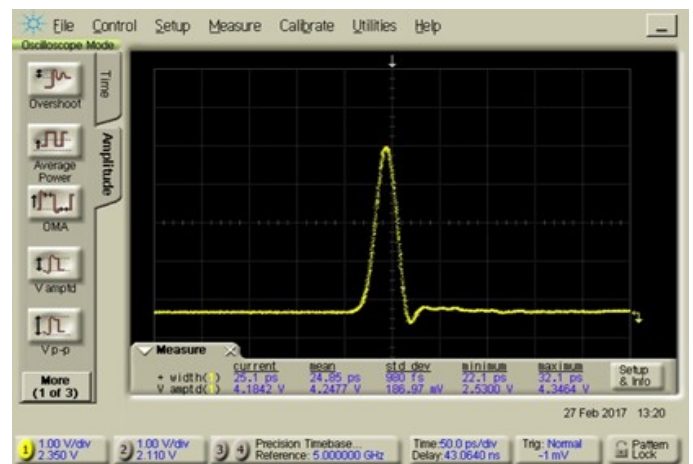
Specification

Item		FWHM = 22ps	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	22 (-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	> 0.30	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 2.4mm 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	(Benchtop) 236 x 88 x 380	mm	
	Weight	(Module) 65	(Benchtop) < 5	g	
				kg	

(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.



22ps Pulsewidth, 0.34Vpp @ Clock Freq. 1MHz



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

Ordering Information

EPG-220M-S(D)-P(N)-SF(SS)

EPG-220B-S-P(N)-T(F)-N(A)-SF(SS)-C(N)

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

CT021_EPG-220M(B)-S(D)-P(N)-T(F)-A(N)-SF(SS)-C(N)_R1.20



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