

22ps/25ps Electrical Pulse Generator

EPG-220M/B

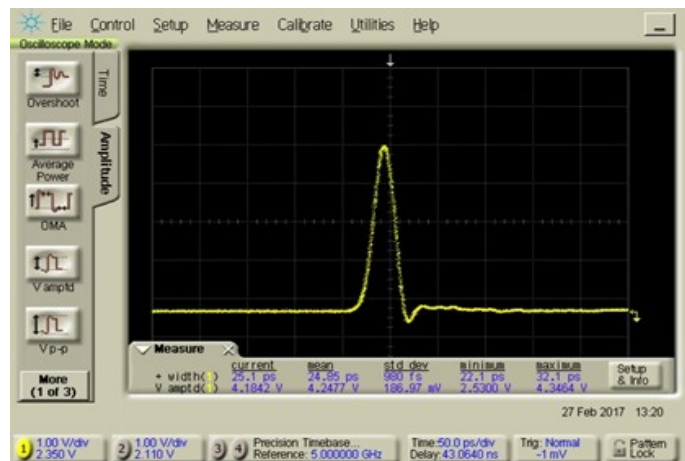
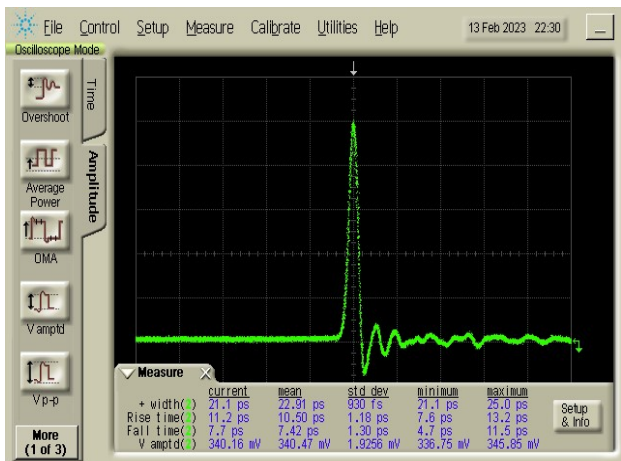
- Generate high-speed electrical pulses of 22ps/25ps
- Fast rise / fall time of 10ps, low jitter
- Pulse on-demand at repetition rates up to 10GHz



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)	-	Yes	
	Frequency Repetition Rate	External Clock / Internal Clock Note: No amplifier (Single Shot "SS", Optional) ²	0.0001 ~ 10 (Ext. Clk) Single-shot ~ 10 GHz	0.0001~10 / 0.0001~1 Single-shot ~ 1 GHz	GHz
Output Characteristics	Pulse Width (FWHM) ³	22 (-1/+2)	25 (+/- 2)	ps	
	Pulse Width Tunability	-	200	ps	
	Rise / Fall Time (20 - 80 %)	10	12	ps	
	Output Voltage	(Standard) ⁴	> 0.20	> 0.30	Vpp
		(High-Voltage "A", Optional) ⁵	> 2.0	, > 3.0	Vpp
	Additive Timing Jitter		< 0.5		ps
Electrical	Clock Output Amplitude	For Built-in Clock Option Only	NIL	0.5	Vpp
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			
	Built-in Clock Frequency	(Built-in Clock "C", Optional)	NIL	0.0001~1	GHz
	Power Supply	(Module)	DC+3.3V, 2A		
	(Benchtop)	AC100~240, 50/60H			
Control	PC Interface	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)	68 x 16 x 59		mm
		(Benchtop)	236 x 88 x 380		mm
			(For unit with high amplitude & built-in clock options integration)		
Physical	Weight	(Module)	100	-	g
		(Benchtop)	< 5		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.(3) Value for single-ended performance. (4) For High voltage "A" option, the unit size will be a benchtop. The maximum operating frequency will be limited to 1GHz.



Ordering Information

EPG-220M(B)-22(25)-S(D)-P(N)-T(F)-N(A)-SF(SS)-C(N)

M: Module, 22: 22ps, S: Single-ended, P: Positive, T: Tunable Pulsewidth, N: No Amplifier, SF: Standard Frequency, C: Built-in Clock Generator
 B: Benchtop, 25: 25ps, D: Differential, N: Negative, F: Fixed Pulsewidth, A: Amplifier, SS: Single Shot, N: No Clock
 Note: For 22ps type, the pulsewidth is fixed type, please choose "F" for fixed pulsewidth in the model number.

The content of the datasheet may subject to change without prior notice.