

## 皮秒电脉冲发生器

上海昊量光电设备有限公司推出一系列脉宽为 50~200ps 电脉冲信号发生器，其中 LPP-100 和 LPP-200 是一系列能够产生超短电脉冲信号的脉冲发生器或放大器，其能够对满足要求的输入信号进行变换，进而可输出皮秒级上升、下降沿的皮秒脉宽电信号，可应用在增益开关半导体激光器、脉冲雕刻、数字梳产生、光闸等系统中，其中 LPP-100 输出脉宽固定，LPP-200 输出脉宽可调。LRA-100 是一款信号放大器，其能够对输入皮秒脉冲进行功率放大，可搭配我们的皮秒电信号发生器使用。

### LPP-100 主要特征：

较短上升/下降时间：15ps  
固定值脉宽：30~200ps  
重复频率：1Hz~5GHz  
稳定脉冲低抖动

### LPP-200 主要特征：

- 1) 可调脉宽：50~1000ps
- 2) 超短上升/下降时间：15~40ps
- 3) 重复频率：0.05~150MHz

### 应用：

电脉冲产生  
光脉冲拾取、刻划  
激光增益开关

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## LPP-100

Category	Parameters	Specification		
		PW=30ps	PW>50ps	Unit
Type				
Input Parameters	Clock Shape	Sine or Square		
	Input Clock Level	300 ~ 500		mVpp
	Frequency Repetition Rate	Single Shot ~ 5		GHz
Output Parameters	Electrical Coupling	AC		
	Pulse Width (FWHM) (Standard)	30	50, 75, 100	ps
	Other Pulse Width (FWHM)		51~200	ps
	Rise/Fall Time (20~80%) (Typ.)	15	17	ps
	Additive Timing Jitter	< 500		fs
	Output Amplitude (Single Ended)	>250	> 500	mVpp
	Output Amplitude (Differential)	> 500	> 1000	mVpp
	Electrical Connector	SMA		
	Input/Output Impedance	50		Ohm
	Power Supply	DC 3.3V, 2A		
Physical	Dimension (WxHxD)	70 x 35 x 75		mm
Recommended Operating Conditions	Operating Temperature	+20 ~ +40		°C
	Storage Temperature	0 to +60		°C

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## LPP-200

Category	Parameters	Specification			
		Min	Typ	Max	Unit
Input Parameters	Clock Shape	Sine or Square			
	Input Clock Level	300		550	mVpp
	Frequency Repetition Rate	0.05		150	MHz
Output Parameters	Electrical Coupling	AC			
	Pulse Width Tuning Range(FWHM)	50		1000	ps
	Rise/Fall Time (20~80%) (Typ.)	15		40	ps
	Additive Timing Jitter	<500			fs
	Output Amplitude (Single Ended)	300	500		mVpp
	Input/Output Impedance		50		Ohm
	Input/Output Connector	Advanced SMA			
	Power Supply	AC 100~240(50/60Hz)			Vac
Recommended Operating Conditions	Operating Temperature	+0~ +45			°C
	Storage Temperature	0 to +60			°C
Physical	Dimension (WxHxD)	140 x 65 x 240			mm
	Weight	3			Kg

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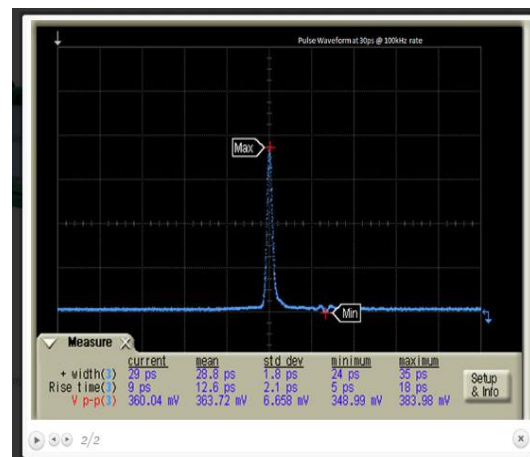
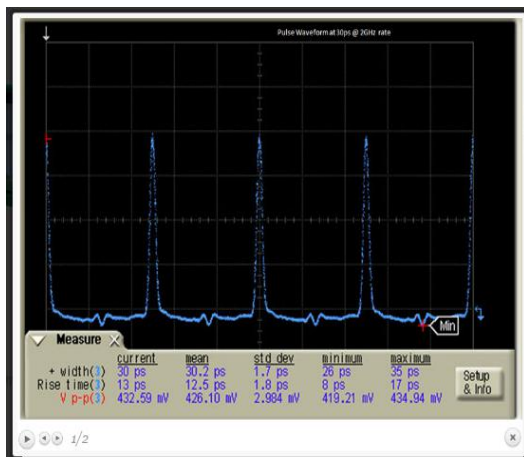
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## LRA-100

Category	Parameter	Specification			
		Min	Typ	Max	Unit
Input Parameters	Pulse Shape	Sine or Square			nm
	Input Pulse Width	30		1500	ps
	Input Level	0.4		1	Vpp
	Input Impedance	50			Ohm
	Repetition Frequency	0.01		12000	MHz
Output Parameters	Output Coupling	AC			
	Output Output Amplitude	3	5.5	6.5	Vpp
	Rise/Fall Time (20~80%) @Max.Amplitude		15	20	ps
	Additive Jitter	550			fs
	Output Impedance	50			Ohm
Intrface	Input/Output Connector	K-connector			
Recommended Operating Conditions	Power Supply	AC 100~240(50/60Hz)			
	Operating Temperature	+0~ +45			°C
	Storage Temperature	0 to +60			°C
Physical	Dimension (WxHxD)	100 x 50 x 150			mm
	Weight	2			Kg



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