

Celestron Options Worksheet

Celestron Family

TLP, VF-TLP, ESD TEST SYSTEM

Version 1.0

4/15/2009

Thermo
S C I E N T I F I C

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Standard TLP Components

Standard TLP is included with all Celestron systems.

Maximum Amplitude \pm 1000 V

Pulse Widths 100 ns
 _____ ns
 _____ ns
 _____ ns
 _____ ns

Choose additional Pulse Widths. These may be between 30ns and 500ns. If additional Pulse Widths are chosen, they will be placed into a separate rack-mounted box. Maximum of 5.

Charge Line Box: **CEL-MCLB**

Pulse Width: **CEL-PW-XXX**

Software Selectable Pulse Widths

Enables software selection of pulse widths. 100ns is required for one choice. Maximum of 3.

Software Selectable Pulse Widths: **CEL-SWPW**

Rise Times 0.2 ns
 2.0 ns (included)
 _____ ns
 _____ ns
 _____ ns

Choose additional Rise Times. A 2nS Rise Time Filter is included.

Choose from:

0.5 ns
1.0 ns
10.0 ns

For other Rise Times, consult factory.

Software Selectable Rise Times

Enables software selection of rise times. 0.2 ns is required for one choice. Maximum of 3, as chosen above. This option's cost includes all 3 rise times.

Software Selectable Rise Times: **CEL-SWPR**

Optional TLP Modes **TDT** (Time Domain Transmission) [**CEL-TDT**]

TDR-T (Time Domain Transmission & Reflection) [**CEL-TDRT**]

- TDR-T 100 Ω**
- TDR-T 500 Ω**
- TDR-T 1000 Ω**

Includes one Impedance option. Others available for additional cost.

CEL-TDRT-100 / CEL-TDRT-500 / CEL-TDRT-1000

Kelvin (4 Point Measurement) [**CEL-KELVIN**]

Misc. Components **Diode Suppressor Box** [**CEL-DIODE**]

VF-TLP Components

If you do not choose the VF-TLP option, skip this page.

Maximum Amplitude \pm 1500 V

Pulse Widths 5.0 ns (included)

2.5 ns (included)

1.25 ns (included)

Rise Times 0.2 ns

Optional VF-TLP Modes **TDR-T 100 Ω** (Time Domain Reflection & Transmission) [**CEL-TDRT-HF**]

Kelvin (4 Point Measurement) [**CEL-KELVIN-HF**]

Misc. Components **Merge Box** (included)

Attenuator Box (included)

HBM Components

If you do not choose the HBM option, skip this page.

Maximum Amplitude \pm 4000 V

Optional HBM Mode HBM With Voltage and Current Monitor

MM Components

If you do not choose the MM option, skip this page.

MM option requires the HBM option

Maximum Amplitude \pm 400 V

System Components

Prober Control Software [CEL-ProbeInt]

Remote TCP/IP Control Software [CEL-Remote]

of BIAS Supplies: _____ CEL-SUPPLY

of Voltage Monitor Kits: _____ CEL-MSR-V

of Ground-Pin Current Monitor Kits: _____ CEL-MSR-I

of High-Frequency Voltage Monitor Kits: _____ CEL-MSR-V-HF

of High-Frequency Current Monitor Kits: _____ CEL-MSR-I-HF

of Waveform Capture Kits: _____ CEL-WVFRM

Oscilloscope

Minimum Bandwidth for Standard TLP: **500 Mhz**

Minimum Bandwidth for VF-TLP: **4 Ghz**

Minimum Bandwidth for HBM and MM: **500 Mhz**

Thermo Fisher Scientific Recommended Oscilloscopes

| | |
|----------------------|---------|
| Tektronix TDS 5104B | 500 Mhz |
| Tektronix TDS 3054 | 500 Mhz |
| Tektronix TDS6604 * | 6 Ghz |
| Tektronix TDS6604B * | 6 Ghz |
| Tektronix TDS7404 * | 4 Ghz |
| Tektronix DPO70604 * | 6 Ghz |

* Scope does not have 1 Megaohm input. A TCA-1MEG adapter must be purchased with the scope.

- Include a Tektronix TDS 5104B oscilloscope with this Celestron**

This is the default choice for Standard TLP. The cost of the scope is included with the Celestron.

- Customer will supply their own scope. Note that this scope must be sent to the factory for integration testing.**

Scope Model: _____

- Customer will supply their own VF-TLP oscilloscope with this Celestron [CEL-VFSCOPE-INT]**

Scope Model: _____

*This is the default choice for VF-TLP. The cost of the VF-TLP capable scope is **NOT** included with the Celestron.*