

Transient Load Steppers

P2105A Browser Probe (Model S10)

Characteristic	Rating
Edge Rate (R/F time)	<500ps switching *
Repetition Rate	DC-50MHz (Limited by average power and dwell time)
Control	User Supplied – 5V pulse generator
Maximum Dwell Time	100us dwell
Input voltage rating	Based on custom resistor *
Output current rating	Based on resistor up to 10A
Wattage	<1W avg.
Voltage	0.8V – 72V
Connector Type	SMPM pulse, spring tip

* Final signal edge speed is dependent on the load board design, voltage, and current. Solution is single level (On/Off). Resistance is set at the time of manufacturing.

Water-Cooled Browser Probe (Model S50)

Characteristic	Rating
Edge Rate (R/F time)	<500ps switching *
Repetition Rate	DC-50MHz (Limited by average power and dwell time)
Control	User Supplied – Digital logic generator or Micro-controller (3.3V or 5V)
Maximum Dwell Time	Up to 100%
Input voltage rating	Based on custom resistor *
Output current rating	Based on resistor up to 50A
Wattage	<50W avg.
Voltage	0.8V – 72V
Connector Type	SMPM pulse, spring tip

* Final signal edge speed is dependent on the load board design, voltage, and current. A 6-position water-cooled sub-ns browser step load probe. Resistance is set at the time of manufacturing. Any of the 6 resistors can be any value, they don't need to be the same.

Crosstalk Demo Board (Model S50DEMO)

A single VIN with an input range from 4.5V to 20V is used to power both power domains.

Characteristic	Rating
Power domain #1	single phase output – 15A max – 0.85Vout
Power domain #2	4-phase output – 100A max – 1Vout

Ultra-High Speed Step Loaders – In-Socket (Model S2000)

Characteristic	Rating
Edge Rate (R/F time)	<500ps switching *
Repetition Rate	DC-50MHz (Limited by average power and dwell time)
Power level (continuous/instantaneous)	Up to 2047W Average
Bandwidth – Duty Cycle/On/Off time range	UP to 100% Duty Cycle
Input voltage rating	Based on resistor, default is 0.8V
Output current rating	Based on resistor – up to 2047Amps
Current Resolution (steps)	Up to 11-bit (Up to 2047Amps in 1 Amp Steps) – 50MSPS logic driven pattern generation
Control	User Supplied – Digital logic generator, Micro-controller, or FPGA (3.3V or 5V)
Connector Types	(Load) User-Defined and Supplied – Fixed pattern or custom patterns available (Control) 16 pin Header