

ITCWPS

chip/wafer probe system
avalanche test specifications



test parameters model 1000	<p><i>Programmable Measurement Current Source:</i> 0 - 10 amps <i>Current Limit Range per Channel:</i> 1 - 8 amps <i>Current Limit Factory Setting:</i> 6 amps/channel <i>Current Limit Accuracy:</i> +/- 0.5 amps</p> <p><i>Each channel can be individually turned ON and OFF</i></p> <p><i>Maximum Number of Channels with all 5 Programmable Current Limiter cards installed</i></p> <p><i>Collector/Drain:</i> 80 <i>Emitter/Source:</i> 80</p> <p><i>Maximum Total Current:</i> 200 amps</p> <p><i>Maximum Voltage</i></p> <p><i>Drain to Source (Power MOSFET):</i> 2000 volts <i>Collector to Emitter (IGBT):</i> 2000 volts</p> <p><i>Operating Temperature Range</i></p> <p><i>WPS Cardcage:</i> 20 - 40 deg C <i>Probecard Assembly:</i> -40 to +85 deg C</p>
SCR Crowbar Specifications model 1000	<p><i>Maximum Current:</i> 200 amps <i>Maximum Voltage:</i> 2000 volts</p>
test parameters model 1001	<p><i>Peak Current Range:</i> 0-200 amps <i>Peak Current Resolution:</i> 0.1 amps <i>Current Sensing Accuracy:</i> +/- 5% <i>Peak Current Overshoot %:</i> (Turn-OFF Delay / Measured T1 time) X 100% <i>Inductance Range:</i> 10uH to 159.9 mH <i>Inductance Resolution:</i> 10 uH <i>Inductance Accuracy:</i> +/- 5% <i>Kelvin Current:</i> 5 milliamps <i>Maximum Kelvin Voltage:</i> 5 volts <i>Gate Drive High Level Range:</i> 5-20 volts <i>Gate Drive Resolution:</i> 1 volt</p>

spec sheet

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test parameters models: 1002 1003 1004	<i>Peak Current Range:</i> 0-200 amps <i>Peak Current Resolution:</i> 0.1 amps <i>Current Sensing Accuracy:</i> +/- 5% <i>Peak Current Overshoot %:</i> (Turn-OFF Delay / Measured T1 time) X 100% <i>Inductance Range:</i> 10uH to 159.9 mH <i>Inductance Resolution:</i> 10 uH <i>Inductance Accuracy:</i> +/- 5% <i>Kelvin Current:</i> 5 milliamps <i>Maximum Kelvin Voltage:</i> 5 volts <i>Gate Drive High Level Range:</i> 5-20 volts <i>Gate Drive Resolution:</i> 1 volt <i>Individual Probe Contact Resistance</i> 0 - 10 ohms
Waveform parameters models: 1003 1004	<i>Vds or Vce Sensing Range:</i> +/- 1300 volts <i>Accuracy:</i> +/-5% (Note: includes the accuracy of the Differential Probe and the Oscilloscope) <i>Vds/Vce Common-Mode Rejection:</i> 50db at 1 MHz (typical) <i>Maximum Input Voltage:</i> 1500 volts <i>Vg Sensing Range:</i> +/- 130 volts <i>Accuracy:</i> +/-5% (Note: includes the accuracy of the Differential Probe and the Oscilloscope) <i>Vg Common-Mode Rejection:</i> 50db at 1 MHz (typical) <i>Maximum Input Voltage:</i> 1500 volts <i>Id or Ic Sensing Range:</i> 200 amps <i>Sensitivity:</i> 0.1 volts/amp <i>Accuracy:</i> +1/-0% <i>Frequency Range:</i> 120 Hz to 20 MHz <i>Droop Rate:</i> 0.06% / microsecond
IGBT with sense emitter only models: 1003 1004	<i>Ise Sensing Range:</i> 10 amps <i>Sensitivity:</i> 1 volt/amp <i>Accuracy:</i> +1/-0% <i>Frequency Range:</i> 300 Hz to 200 MHz <i>Droop Rate:</i> 0.2% / microsecond

Note: Specifications subject to change without notice.

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