

I. GENERAL INFORMATION

1.1 Introduction.

The Lucas Epsco Model PG5KB is a high power pulse signal source capable of operation from 150 to 4000 MHz using plug-in heads. The various heads are described in the enclosed data sheet.

1.2 Specifications.

1.2.1 Frequency Characteristics.

1.2.1.1 Frequency Coverage: 150 - 4000 MHz

1.2.1.2 Resolution: .01%

1.2.1.3 Calibration Accuracy: $\pm 0.2\%$

1.2.2 Power Output: 5 KW to 2350 MHz; 4 KW to 3100 MHz; decreasing to 1000 watts at 4000 MHz.

1.2.2.1 Power Adjustability: 6 - 10 dB

1.2.3 Duty Cycle: .005 maximum. Higher duty cycle at reduced power output. See derating chart supplied with plug-in head.

1.2.4 Pulse Width: 0.3 to 50 microseconds in two ranges. Above 10 microseconds, power output must be reduced. See pulse width derating chart.

1.2.5 Pulse Repetition Rate: 20 - 25000 pulses per second in four ranges.

1.2.6 Pulse Rise Time: 50 nanoseconds or less.

1.2.7 Pulse Fall Time: 150 nanoseconds or less

1.2.8 Sync Input: +10 volts

1.2.9 Sync Output: +10 volts

1.2.10 External Pulse Input: +10 volts

1.2.11 General

1.2.11.1 Power Input: 115 VAC \pm 10v, 5 amperes; 220 VAC \pm 10v, 3 amperes (optional); 50/60 Hz, single phase.

1.2.11.2 Mechanical

Size: 20 x 9.5 x 22 inches

Color: Black

Weight: 80 pounds

Mounting: Bench; Rack Mount Optional.