

RF POWER GENERATORS

R301
R601



- Magnetron Sputtering
- RF Plasma Processing
- RF Bias

- 13.56 MHz
- CE Marked
- Air Cooled - 1/2 Rack
- RS-232
- Master/Slave Operation
- Programmable Pulsing (R601)

- Auto Matching Network Available
- Manual Matching Network Available
- Full Complement of Accessories

- 15 Month Warranty

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RF POWER GENERATORS

PRODUCT DESCRIPTION

KJLC "R Series" RF Power Generators are second-generation, 300 and 600 Watt 13.56 MHz RF power generators. These compact, air-cooled units are designed to exceed the most stringent vacuum processing demands. They can be used as the sole source for plasma generation, as a Bias generator, or as one of several generators in a multiple generator configuration. The front panel controls and indicators are logically grouped, with operational status shown on the front panel four line fluorescent display.

KJLC "R Series" products incorporate a single surface mount technology printed circuit board for controls and RF amplifier. The RF amplifier is powered by a rugged tapped transformer, rectifier and filter capacitor (R301), and a switch mode power supply (R601).

KJLC "R Series" products utilize Field-Effect Transistors in the exciter and power amplifier stages. These units operate in class AB mode providing power accuracy and stability across the entire power range.

RATING

The "R Series" power amplifier is rated at 50% of its actual design capability.

PROTECTION

KJLC generators are protected against excessive Voltage Standing Wave Ratio (VSWR) conditions by limiting reflected power, power amplifier current, and power amplifier transistor dissipation.

AGENCY COMPLIANCE

The KJLC "R Series" carries CE Marking (EMC and Safety) and meets FCC regulations for spurious radiated emissions.

CONTROL INTERFACES

The "R Series" is a microprocessor controlled, solid-state RF generator. This product can be controlled by: (1) a selectable serial RS-232/ 422/485 interface, (2) a 25 pin D-sub analog interface connector, or (3) the front panel.

POWER CONTROLS

The KJLC "R Series" R301 & R601 can regulate their power output utilizing the following control modes: DC Voltage, RF Voltage, Forward Power Leveling, and Load Power Leveling.

The R301 can operate as master or a slave generator in dual generator and/or Bias applications.

The R601 is capable of 2 modes of high speed pulsing: programmable pulsing via the front panel (rate and duty cycle); and analog pulsing, where the generator tracks an incoming pulse train. All products also include a sync pulse output to synchronize pulsing between two or more generators.

WARRANTY

KJLC products are warranted against defect for a period of (15) months from date of shipment.

SERVICE

KJLC products are supported by a World-Wide Network of qualified service engineers. Consult www.lesker.com for our locations in your area.

05-080

Model	R301	R601
Power Output	300 Watts	600 Watts
Frequency	13.56 MHz	13.56 MHz
Forward Power Metering	+/-1% Full Scale, +/-1% Reading	+/-1% Full Scale, +/-1% Reading
Output Power Stability	+/-0.5% Long Term, +/-1 Watt	+/-0.5% Long Term, +/-1 Watt
Harmonics	-55 dBc	-55 dBc
Input Power	95- 125 VAC, 47-63 Hz, Tapped 198- 250 VAC, 47-63 Hz, Tapped	95-125 VAC 190-250 VAC, 47-63 Hz
Output Connector	Type "N" Female	Type "N" Female
Interface Connectors	Serial: DB-9 Female; Analog: DB-25 Female	Serial: DB-9 Female; Analog: DB-25 Female
Dimensions	5.25" H x 8"W x 19" D	7" H x 9.5" W x 18.5" D
Weight	43 lbs.	33 lbs.
Ordering Information	See www.lesker.com	