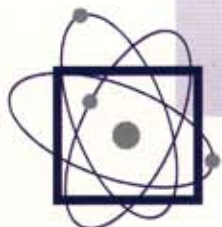




# RF 10S/P/L

## MULTI FREQUENCY RF GENERATOR

- 1000 watts output power.
- RS-232/422/485 interface allows precise control and monitoring of all functions and modes.
- Analog ( $\pm 5$  or  $\pm 10$ V) TTL or CMOS compatible computer interface.
- Monitor and control DC bias or RF voltage.
- Precise control and metering of forward power.
- Advanced air or water cooled electronics.
- Programmable pulsing for ease of ignition and process control.



# RFPP

RF Power Products Inc.

THE WORLD'S LEADING AUTHORITY ON RF POWER



# RF POWER GENERATORS



# RF10S/P/L

## PRODUCT DESCRIPTION

The RF Power Products RF10 is a 1kW multi-frequency RF generator. By combining advanced hardware design with state-of-the-art software, the RF10 provides the user with the ability to quickly and simply control and/or monitor virtually all generator functions. All information is grouped logically and presented clearly on a digital vacuum fluorescent display.

The RF10 consists of a series of functional modules in an aluminum chassis. Each assembly is easily accessed for servicing, and diagnostics may be performed via the front panel or through the RS-232/422/485 interface. Repair is accomplished by replacing the faulty module. RF power is developed by a single, compact power amplifier of MOSFET design mounted on a water or air cooled heatsink.

As with all RF Power Products RF generators, the RF10 complies with FCC regulations for spurious radiation and will not interfere with associated plasma system electronics.

## SYSTEM INTERFACE

The RF10 is designed for a seamless interface with the system controller. The standard RS-232 interface, the optional RS-422, and RS-485 are all available to suit system requirements.

The widely used analog control interface utilizes TTL or CMOS compatible logic, and  $\pm 5V$  or  $\pm 10V$  analog control signals.

## CONSERVATIVE RATING

The use of conservatively rated solid-state components, along with microprocessor control, ensures reliable operation with an absolute minimum of maintenance. All key parameters are continuously monitored and required diagnostic information is available via RS-232/422/485 interface or at the front panel.

## SAFETY AND PROTECTION

A number of hardware and software protection features protect the unit from damage due to line or load anomalies. The design philosophy uses a layered protection scheme comprised of current sensing/limiting, dissipation limiting, over/under voltage sensing, reflected power limiting and temperature sensing. Sophisticated hardware and software provides a high degree of operator safety and equipment protection.

## PRODUCT SUPPORT

RF Power Products, Inc. provides the most complete service in the RF industry. Currently there are service depots in New Jersey, California, Texas, Europe, Japan, Korea and Taiwan. Qualified field service engineers are available at all locations.

## MODEL RF10S/P/L

Power Output	1000W
Power Control Regulation	1% into 50 ohms
Frequency With Stability	(S) 13.56/ (P) 27.12/ (L) 40.68 MHz $\pm$ .05%
Repeatability	$\pm$ 0.5%
Harmonic Distortion	-50dBc
Noise, Hum, and Ripple	-40 dBc at 1000W
Line Voltage (Input Power)	198-250 1 $\emptyset$ 50/60 Hz
Interface Connectors	Analog/RS-232C/422/485
Output Connectors	Type N
Cable Requirements	RG213
Dimensions	19"W x 20"D x 7"H
Net Weight (Approximate)	80 Lbs.
Water Flow Rate (Gal/Min)	1
Water Line Connection	1/8" Male NPT



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