

KJLC® RFO3 Power Supply Package

Major Components Sheet

Corresponding Datasheet: N/A | Date Revised: 7/21/2013



Features

Power Supply: RF RF Package Includes;

> 300W RF Generator 300W RFAuto Matching Network

Matching Network Controller

Connectivity (Comms and Power) Between Units & Cathode

Maximum Output Power: 300 W Frequency: 13.56 MHz, (Fixed)

Output Impedence: 50 Ohms, ± 5 Ohms Nominal

Pulsing: 0-1KHz, 1-Hz Steps, 50 micro-sec Minimum Pulse Metering Accuracy: +/- 1% full scale, +/- 3% of reading

Functionality Accessories

When sputtering highly insulating oxide films, RF power supplies are preferred as they avoid poisoning (charge build-up), on the sputter target. By operating at a high frequency the buildup of electrical charge insulating targets that would otherwise happen with a DC output type supply can be avoided. RF supplies can also sputter metals, though rates suffer when compared with DC power supplies.

Each power supply "package" includes an RF generator, automatic matching network, and network controller. The R301 package has four control modes to regulate power output; DC Voltage, RF Voltage, forward power leveling and load power leveling. The microprocessorcontrolled, solid state power supply has programmable high speed pulsing with automatic gain control for reliable, repeatable power for and insulating process.

• Where Used: PRO Line PVD 75

• Recommended Applications: Highly insulating oxide films

• Non-Compatability: Metallic targets will have low deposition rates

KJLC Torus 2" sources

KJLC Torus 3" sources

Kurt J. Les

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