OIL DIELECTRIC

NEW!

SC 13 Series

Ultra-Stable, Oil-Dielectric RF Termination Loads For Semiconductor Processing Advantages

- No warm-up time
- Ultra-stable: 0.1 dB total change in VSWR from 0 to 100% rating power at 13.56 MHz
- Passive design
- Ultra-low VSWR – typically 0.05:1 at process critical frequencies
- Homogeneous RF design provides long-term repeatability

For maximum process repeatability and consistency, modern plasma applications require precise RF power regulation and control. A key component in ensuring accurate and repeatable RF power delivery to the chamber is calibration, regulation, and monitoring of the RF generator.

Bird® now offers ultra-stable, low VSWR loads for quick and precise measurement of generator power output when used with precision power sensors such as the Bird® 4020 & 4027A Series.

Bird® models 8865SC13, 8890-300SC13, 8921SC13 & 8931-115SC13/-230SC13 not only provide low VSWR but also less than 0.1 dB total change in VSWR at process critical frequencies. There is no need for load warm-up or risk of repeatability due to calibration for different lengths of time. This can minimize the errors associated with this calibration and control one of the more critical process variables in the etch process.

Model	Frequency Range & VSWR	Power Rating
8865SC13	DC to 28 MHz at 1.1 max. (less than 1.05 typical)	1 kW
8890-300SC13	DC to 28 MHz at 1.1 max. (less than 1.05 typical)	2.5 kW
8921SC13	DC to 28 MHz at 1.1 max. (less than 1.05 typical)	5 kW
8931-115SC13	DC to 28 MHz at 1.1 max. (less than 1.05 typical)	10 kW, 115 V
8931-230SC13	DC to 28 MHz at 1.1 max. (less than 1.05 typical)	10 kW, 230 V