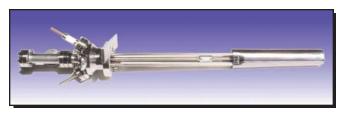
RF-2.75 Plasma Source



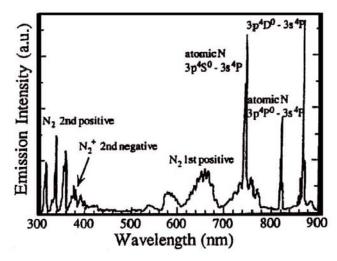
SVTA-RF-2.75

Description

SVT Associates developed a compact RF plasma source for thin film deposition systems. It is designed for fundamental research of nitride and oxide thin film growth. It has a manually tuned RF matching network and mounts on a standard 2.75" CF (70mm) flange. It is equipped with an optical view-port for plasma monitoring, and an integral plasma spark igniter. The SVTA-RF-2.75 plasma source can produce growth rates as high as 0.5 $\mu m/hr$ or better, and flux uniformities of $\pm~2\%$ on 2" wafers.

Specifications

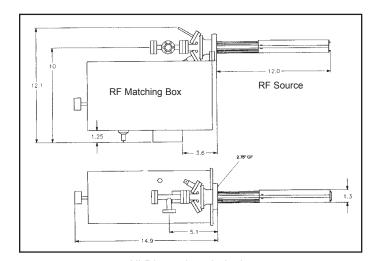
RF Power Level	150 - 400 Watts
Gas Flow Rate	0.1-5 SCCM
Flange	2.75" CF
Source Diameter	
Water Cooling	0.17 GPM Flow Rate
RF Matching Network	Manually Tuned
Plasma Chamber	PBN



Nitrogen Plasma Emission Spectra of the SVTA-RF-2.75 Plasma Source

Features

- Compact RF Plasma Source
- Optical Port for Plasma Monitoring
- Integral Water Cooling



All Dimensions in Inches

Model	Description
SVTA-RF-2.75	PBN, 2.75" CFF
SVTA-RF-2.75-PBN-A-0.11	PBN Aperture, Single 0.11" Hole Dia.
SVTA-RF-2.75-PBN-A-XX	PBN Aperture, Specify Hole Diameter (xx)
SVTA-RF-2.75-PBN-CHS	PBN Plasma Chamber Set
SVTA-RF-2.75-PBN-S	PBN Internal Shield Accessory
SVTA-RF-2.75-Q-A-0.11	Quartz, Single 0.11" Hole Dia

Model	Optional Components
SVTA-RF-OP	Plasma Emission Monitor
RF-FOA	Fiberoptic Flange Adapter
SVTA-RF-V	Variable Leak Valve