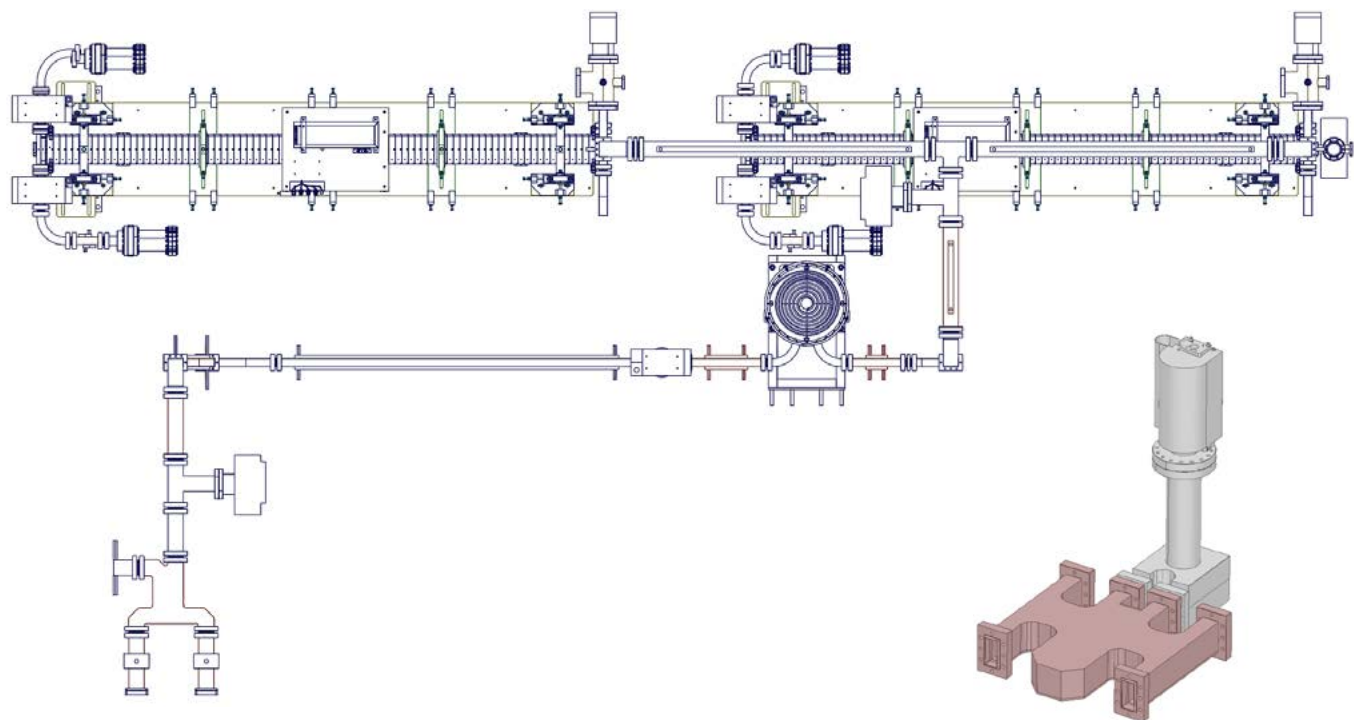


In-Vacuum Variable Power Divider

Compact, single piston, SF6 free, high power



Highlights

Feature	Benefit
OHFC (Oxygen Free High Conductivity Copper) waveguide	Fit to operate in Ultra High Vacuum (UHV) environment
Copper gasket sealing	High Vacuum Rate <1.3E-11[Pa·m³/sec]
316 L Stainless Steel Flanges	Strong and vacuum compatible
No SF6 (All vacuum based)	Simple and compact waveguide layout without RF windows
Single piston based design	Linear with high precision
Special choke design	Proper higher order modes damping
Two configurations for both E and H plane versions	Making installation simpler and economical

Application

A single piston designed specifically for high power operation and HOMs damping is used to control the phase linearly and precisely at the output port of compact orthogonal mode launcher. Very

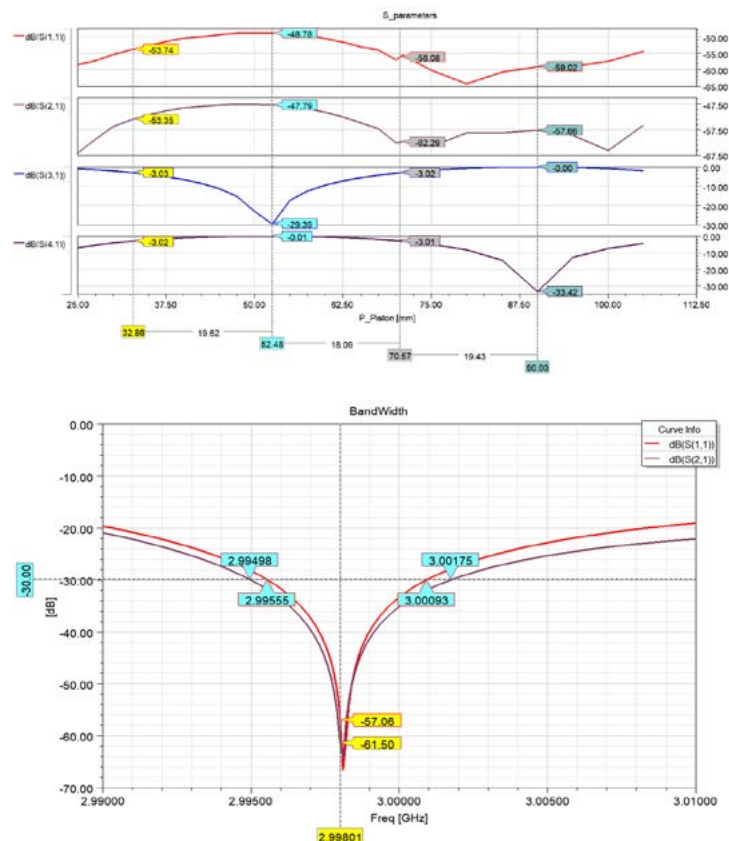
compact design makes it easy to install and being in-vacuum eliminates the need of RF windows resulting in very compact and cost effective waveguide network.

Specifications

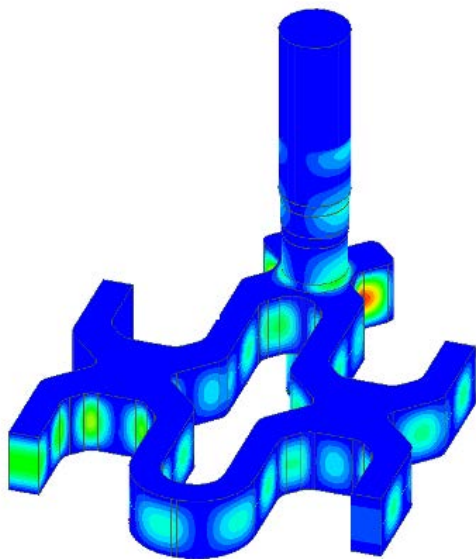
Parameter	Value
Operating frequency	2998.01 MHz
Bandwidth @ -30 dB	15 MHz
VSWR	<1.01
Phase range	±200 degrees
Pulse length	1μs
Repetition rate	60 Hz
Max peak power	80 MW
Max average RF power	≈20 W

Technical Support

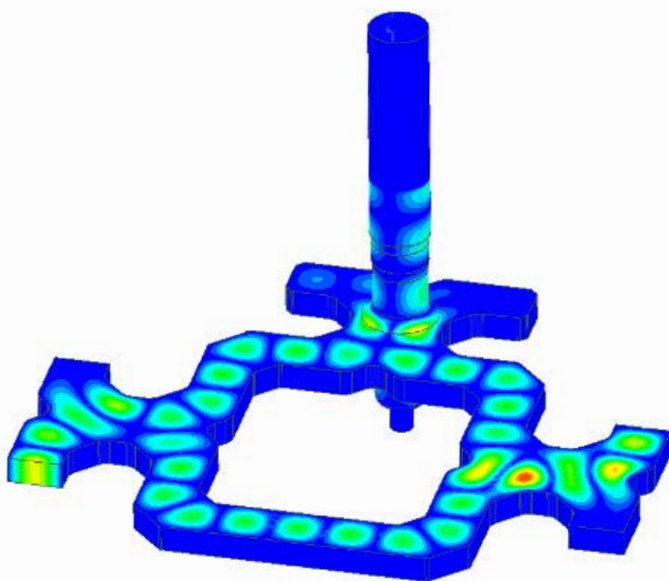
- Design and manufacturing
- Low power testing and reports
- Conditioning, high power testing and reports
- Complete engineering support for customization and installation



E-Plane Variant



H-Plane Variant



Developed for the FERMI@Elettra Project.

Contact us!

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