

Matched/Cryogenic Loads, Tunable Shorts



Applications

- Laboratory measurement and test equipment
- Subsystems and assemblies
- Absolute calibration (cryogenic loads)

Features

- Up to 220 GHz operating frequency
- (1.03...1.15) : 1 load VSWR
- >20:1 Short VSWR
- Wide band and narrow band units
- Compact size
- Easy mounting

Description

Matched and Cryogenic loads consist of tapered absorbers within a waveguide section. Tunable Shorts have micrometer screw to move short circuits plane and vary path length.

Standard line of ELVA-1's matched loads **ML-XX/CF/BW** series provide low level of reflected power within a narrow or full waveguide band.

Cryogenic loads **CL-XX/BW** are to be used for absolute calibration tests: radiometers, noise sources, receivers, noise figure measurements. They can be narrow or full band as well.

The **SC-XX** tunable shorts ideally suit for precise adjusting of waveguide path length. Joined with circulators **CR-XX/CF/BW** series create tunable phase shifter **PS-XX/CF/BW**.

How to Order: Specify Model Number **ML/CL/SC—XX/CF/BW**, where

- **XX** – number of waveguide standard (Ex. 10 for WR-10 and 06 for WR-06)
- **CF** – central frequency (in GHz)
- **BW** – bandwidth (in GHz), are **empty** for full waveguide band

Example:

ML-10/94/2 (W-band matched load, WR-10, Central frequency 94GHz, Bandwidth 2GHz)

All ELVA-1 loads/shorts are warranted by the manufacturer for one year after receipt.