



- Low-power RF load, designed as a termination of isolated circulator ports
- RF absorption via SiC inlay
- Air cooled
- Free of maintenance & wear parts
- RoHS compliant
- Designed for X-band LINACs

Parameter	Value
Footprint Drawing No.	3-122996-FP
Product Type	RF Load
Configuration	Dry Load
Center Frequency f_0	9300 MHz
Bandwidth BW	± 20 MHz
Input Peak Power	25 kW max.
Input Average Power	25 W max.
Return Loss	≥ 30 dB
VSWR	< 1.065
RF Waveguide	WR112
RF Flanges / Connectors	WR112 cover flange, UG-51/U, with 4x 8-32 UNC-28
Cooling System	Air cooled by convection
Waveguide Dielectric Filling Gas	SF6
Gas Pressure	nominal: 3 bar absolute
	maximum : 4 bar absolute
Gas Leak Rate (Helium)	$< 5 \cdot 10^{-4}$ mbar l/s
	device pressurized with He gas at 2.5 bar gauge
Ambient Temperature	operating : 10°C to 40°C
	storage : 0°C to 60°C
Relative Humidity	$< 80\%$, non-condensing
Body Material	Aluminium
Surface Finish	none
Dimensions	see footprint drawing
Weight	0.16 g approximately
Mounting Orientation	any

Ordering Code

LD-WR112-01-9300

Notes:

- 1 Low-Power Acceptance Tests: The following tests will be performed at the AFT factory before shipment: (1) small-signal network analyzer measurements of input return loss vs. frequency at room temperature, (2) He-gas leak rate testing.
- 2 Documentation: The documentation includes specification, footprint drawing, an inspection report and test result for return loss.

Rev.	Remark	Date	Name
00	Initial	23.11.2020	C. Weil
	Formal update	03.03.2022	C. Weil
	Footprint drawing no., weight	13.12.2022	C. Weil