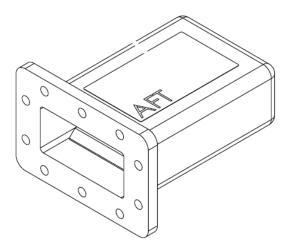
Data Sheet LD-WR284-01-Xf Dry Load CPR284F AuthorC. WeilRevision00Release19.02.2024Page1 of 2



AFT Mare

- Low-power RF load, designed as a termination of isolated circulator ports
- RF absorption via SiC inlay
- Air cooled
- Excellent peak/ average power capability
- High reliability & long life-time
- Free of maintenance & wear parts
- RoHS compliant
- Designed for S-band LINACs operating at 2856 MHz and 2998 MHz

Parameter	Value		
Footprint Drawing No.	FP-10072607		
Product Type	RF Load		
Configuration	Dry Load		
Center Frequency f ₀	2856 MHz or 2998 MHz		
Bandwidth BW	± 10 MHz		
Input Peak Power	1 MW max.		
Input Average Power	50 W max.		
Return Loss	≥ 30 dB		
VSWR	< 1.065		
RF Waveguide	WR284		
RF Flanges / Connectors	CPR284F, flat, 10 holes \varnothing 6.5 mm		
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)	< 5·10 ⁻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		



Dry Load CPR284F

Dimensions	see footprint drawing
Weight	1 kg approximately
Mounting Orientation	any

Ordering Code

LD-WR28	4-01 - Xf	
Variable	Description	Value Options
Xf	Center Frequency [MHz]	2856 or 2998

Notes:

- 1 <u>Low-Power Factory Tests</u>: The following tests will be performed at the AFT factory before shipment:
 - (1) small-signal network analyzer measurements of return loss vs. frequency at an ambient temperature of 22°C ± 4°C.
 - (2) Water pressure and leak test.
 - (3) Visual inspection.
 - (4) Helium gas leak rate test.
- 2 <u>Documentation</u>: An owner's manual is supplied for providing information on the installation, operation and maintenance of the device. The documentation will also include specification, footprint drawing, an inspection report, and the RF test results as viewgraphs of S-parameters vs. frequency.

Rev.	Remark	Date	Name
00	Initial	20.11.2015	C. Weil
	New logo, notes updated	19.02.2024	C. Weil