Data Sheet   LD-WR284-02-Xf

Dry Load CPR284G

Author   C. Weil
Revision 00
Release   20.11.2015

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- 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-10072608	
Product Type	RF Load	
Configuration	Dry Load	
Center Frequency f_0	2856 MHz or 2998 MHz	
Bandwidth BW	$\pm$ 10 MHz	
Input Peak Power	1 MW max.	
Input Average Power	50 W max.	
Return Loss	$\geq$ 30 dB	
VSWR	< 1.065	
RF Waveguide	WR284	
RF Flanges / Connectors	CPR284G, grooved, 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)	< $5 \cdot 10^{-4}$ 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	

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Dimensions	see footprint drawing
Weight	1 kg approximately
Mounting Orientation	any
Accessories included	1x metallic gasket p/n 1-0002998000-000

Ordering Code

LD-WR284-02 - **Xf**

Variable	Description	Value Options
Xf	Center Frequency [MHz]	**2856** or **2998**

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: 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.

   As an *option to be ordered separately*, extended documentation is available in terms of a low-power RF test report (viewgraphs S-parameters vs. frequency) or written factory test protocol.

Rev.	Remark	Date	Name
00	Initial	20.11.2015	C. Weil