2 Channels Coaxial Rotary Joint LPHF-02D

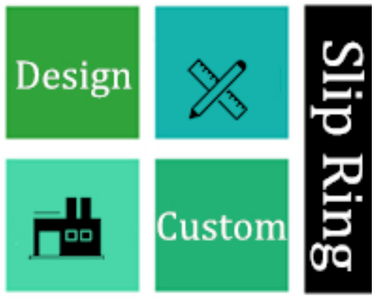
LPHF Series is used for continuous rotating device， which transfer the Hi-frequency signal between the fixed part and rotating part. RF signals could be transmitted through axial and radial coupling structures. Advantages are high transmission rates and resistance to electromagnetic fields.

Specifications

	Channel 1	Channel 2
Interface	SMA-f (50 Ω)	SMA-f (50 Ω)
Style	I type	I type
Frequency Range	DC to 18 GHz	DC to 18 GHz
Peak Power, max.	1000 W	1000 W
Average Power, max.	30 W	20 W
VSWR, max	1.35@ 0-8 GHz ／1.5 @ 8-18 GHz	2 @ 0-4 GHz/3.5 @4-12GHz 4.5@12 to 18 GHz
VSWR WOW (360°max.)	0.1	0.1 @ 0 to 4 GHz 0.4 @ 4 to 12 GHz 2.0 @ 12 to 18 GHz
Insertion Loss, max	0.4 dB @ 0-12 GHz 1.0dB @ 12-18 GHz	0.5 dB @ 0-4 GHz 2.0 dB @ 4-12 GHz 3.5 dB @ 12 to 18 GHz
Insertion Loss WOW, max.	0.05dB	0.1 dB @ 0 to 4 GHz /0.7 dB @ 4 to 12 GHz 1.5 dB @ 12 to 18 GHz
Phase WOW (degrees max.)	0.5° @ 0 to 8 GHz 1.5° @ 8 to 18 GHz	0.5° @ DC to 8 GHz 1.5 ° @ DC to 8 GHz
Isolation	50dB	
DC power (Applied to one channel only)	0.5A * 48 VDC @ full power	0.5A * 24 VDC @ full power

Rotation Speed Max	30 rpm	Life, min	10 million revolutions
Temperature (Ambient Range)	-40 to +70℃ (Operation) -50 to +70℃ (Storage)	Humidity (non-condensing)	85% (Operation) 95% (Storage)

Features



- Small size and lightweight, to fulfill your compact design.
- DC upto 18 GHz working frequency for both channel

Applications

- Vehicle Turrets
- Radar Antennas
- Remotely Operated Vehicles
- Video Surveillance Systems
- Traffic Systems

3D drawing