



SciTrue

SciTrue – – An Expert of Slip Ring

MF Slip Ring

Description

- ▲ Medium frequency(MF) slip ring design is similar to coaxial cable structure, mainly used for transmission of high/medium/low frequency signals (HMLF) and various power.
- ▲ Possible for Center Thro Bore.
- ▲ All parameters of medium and high frequency are analyzed and calculated accurately to ensure the best performance and function .
- ▲ Electric sealing structure is adopted between the middle and high frequency signal channels, which has good shielding effect and isolation.
- ▲ The Channels(rings) are arranged in axial direction, adopting multi-points Gold-Gold contact of brush bundle, with small contact resistance and resistance fluctuation, small friction coefficient and good wear-resisting property and long service life.



Features

- ◆ Unity structure, Small spacing between rings
- ◆ RF interface connector, easy installation
- ◆ Low insertion loss, high isolation, small Phase - WOW
- ◆ Strong anti - interference ability and small loss for Signal transmission
- ◆ Possibly integrated with other rotary joints
- ◆ Maintenance-free in life cycle

Typic Application

- ◆ Radar System
- ◆ HD Video Transmission
- ◆ Satellite antenna



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Operating Parameters

Items		Normal	Special
Environmental	Enclosure	IP40	IP67
	Temperature	-40°C~+80°C	-60°C~+80 °C / 0°C~+150°C
	Humidity	>95%	100%
Signal	Frequency	≤100MHz	≤600MHz
	Insertion Loss	≤1.5dB	≤0.5dB
	Isolation	≥50dB	≥65dB
	Phase - WOW	≤4°	≤1°
	VSWR	≤1.5	≤1.2
	Center Thro Bore	≤80mm	≤200mm
	Above parameters are the limited value and cannot be all implemented for products		
Mechanical	Rotary Speed	≤100rpm	≤300rpm
	Life (reference)	≥1000 M. R	≥3000 M.R
	As difference of product size and application environment, product life is for reference only, Consult to factory		

Optional Specification

- ◆ Overall Dimension
- ◆ Installation dimension and form
- ◆ Shell material and surface treatment
- ◆ Electrical connection modes (cable or connector)
- ◆ Environmental Tests

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