

PRJ-218SMA

高频滑环 RF ROTARY JOINT



同轴滑环是应用在连续旋转的设备中, 需要从转子到定子传输高频信号, 如传统的雷达, 交通控制, 防御系统, 医疗设备, 高清视频系统等等, 信号频率可从DC--18G

PRJ-218SMA是标准的同轴双通路高频滑环, PRJ-218SMA高频滑环可以提供2路2G-18G的高频通道供传输射频、高清视频、高速数字等信号; 具有低力矩, 低损耗, 低电气噪音等优点, 领先同类滑环. 并可根据客户需求集成电滑环定制外型;

The RF rotary joints are needed wherever high-frequency signals have to be transmitted between a fixed platform and a second platform in continuous rotation. Such applications includes traditional radar technology for air traffic control or anti-missile defence, medical engineering, V-sat and Satcom technology as well as TV camera systems or cable drums that allow sensitive cable to be wound. the signal frequency can be DC to 18G.

PRJ-218SMA is the coaxial rotay joint is a dual-channel high-frequency slip ring, it provides 2 circuits for the transmission of HD video signal, HD digital signal and so on; and this model provides smoother running, lower torque, low contact wear rates than other competitive slip rings.

RF ROTARY JOINT编码简示

PRJ - 218SMA

产品代码
Product Code

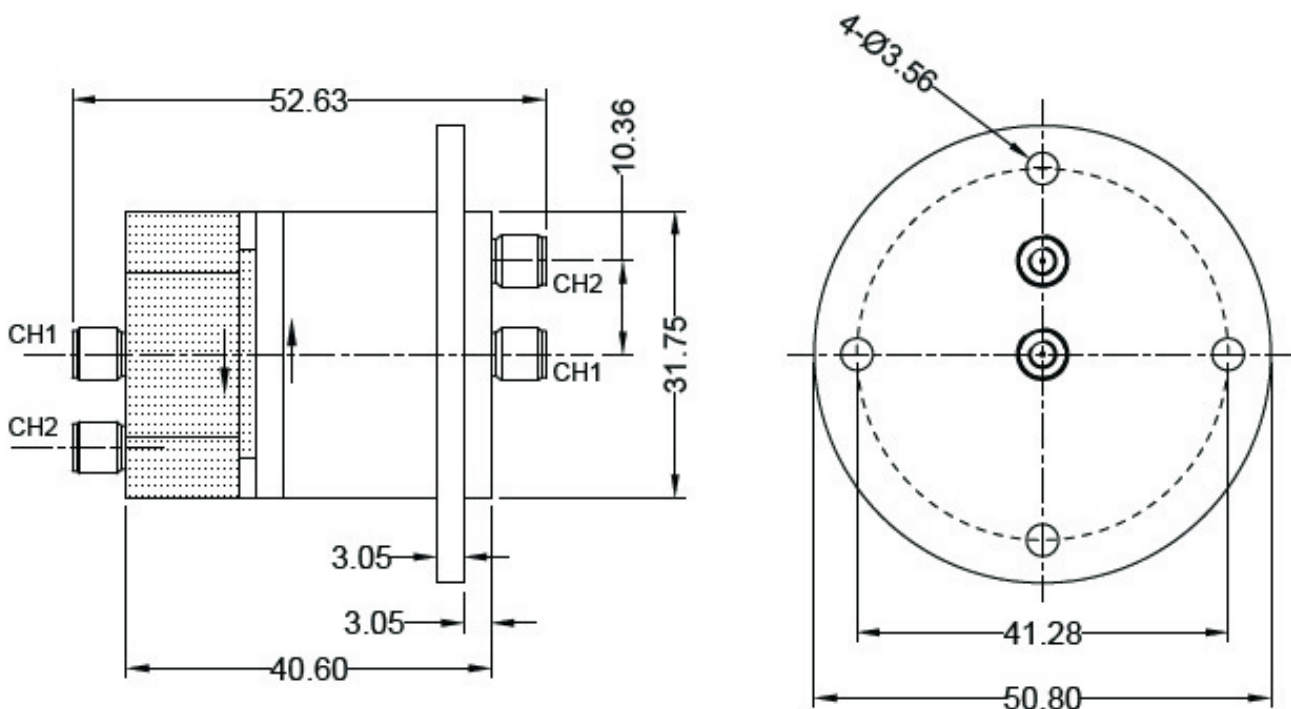
接头类型
Connector types

Ways
通路数

频率
Frequency rate

基本型号及尺寸 Basic Model and Size

主体直径 Outside dia	32.8 mm	
法兰直径 Flange dia.	50.8mm	
基本型号 Model NO	通路数 Circuits	长度L Length "L"
PRJ-218SMA	2	40.60mm



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◎ 特性 Feature

- 紧凑化设计, 小体积, 满足苛刻空间需求
Compact miniature design, small size fit for harsh space
- 可传输高清视频, 射频信号
can transmit HD video signal and RF signal
- 可集合电滑环使用
Combine slip ring + RF Joint
- 传输信号频率可达18G
the transmitting frequency up to 18G

◎ 典型应用 Typical Application

- 雷达, 移动天线, 动中通
Radar, Mobile antenna, Satcom
- Mobile communications services
- 高清CCTV监控系统/高清云台
CCTV Monitoring System;
- 测试设备, 交通控制, 防御系统
Electrical test equipment, Traffic control system, Defense system
- 医疗设备
Medical equipment

◎ 机械性能 Mechanical Spec

转速	300转/分钟
Speed	300Rpm
扭矩	0.06 N.M
Torque	0.06 N.M
壳体材料	铝合金
House material	Aluminum
表面处理	阳极
FINISH	IRRIDITE
重量	180g
Weight (max)	180g
寿命	200million
Estimated life cycle	revolutions

◎ 环境 Environment

工作温度	-40 °C ~ +80 °C
Operation temp.	-40 °C ~ +80 °C
储存温度	-50 °C ~ +85 °C
Storage temperature	-50 °C ~ +85 °C
相对湿度	60%
Relative humidity	60%
机械振动	MIL-SID-810E
Mechanical vibration	MIL-SID-810E
防护等级	Ip54
Seal class	Ip54

◎ 电气性能 Electrical Spec

PRJ-218SMA	Channel 1		Channel 2			
	0-1.4GHz	1.4-18GHz	0-1.4GHz	1.4-2.0GHz	2.0-3.0GHz	3.0-4.0GHz
频率 Frequency rate	0-1.4GHz	1.4-18GHz	0-1.4GHz	1.4-2.0GHz	2.0-3.0GHz	3.0-4.0GHz
峰值功率 Peak Power	3.0kW	3.0kW	3.0kW	3.0kW	3.0kW	3.0kW
平均功率(W) Average power at 1GHz	200	200	200	200	200	200
电压驻波比 Voltage standing wave ratio	VSWR≤1.2	VSWR≤1.8	VSWR≤1.2	VSWR≤1.4	VSWR≤1.8	VSWR≤2.5
电压驻波比起伏 voltage standing wave ratio typical	≤0.05	≤0.05	≤0.1	≤0.1	≤0.4	≤0.4
插入损耗 Insertion loss	≤0.1 dB	≤0.7 dB	≤0.5 dB	≤0.5dB	≤1.5 dB	≤1.5 dB
插入损耗起伏 Insertion loss typical	≤0.05dB	≤0.05dB	≤0.1dB	≤0.1dB	≤0.3dB	≤0.3dB
隔离度 Insolation between other channels	≥50dB	≥50dB	≥50dB	≥50dB	≥50dB	≥50dB
相位偏差 Phase-WOW	≤1°	≤1°	≤2°	≤2°	≤2°	≤2°
接头类型 Connector types	SMA socket	SMA socket	SMA socket	SMA socket	SMA socket	SMA socket

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