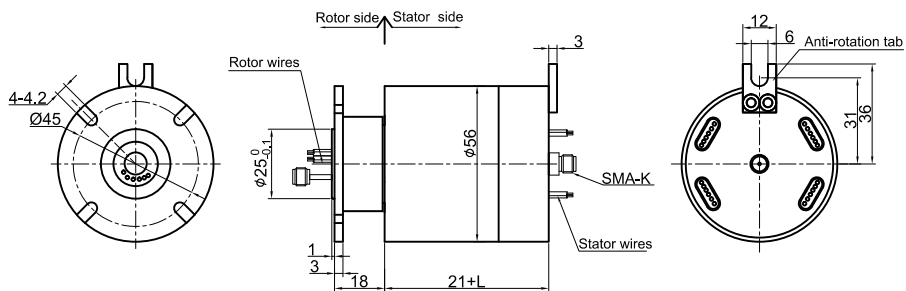


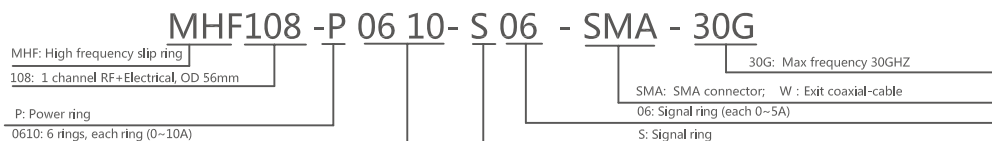
# MHF108 Series

## 1 Channel Rf Rotary Joints+electric Slip Ring

MHF108 is 1 channel RF + electric combining high frequency rotary joint. High frequency + electric slip ring is specifically designed to support high-speed serial digital signals or analog signal transmission. It can support maximum rate 30GHz. This series product can support single channel high frequency transmissions, also high-frequency signal transmission combining with 24V control signal, communication signal, power supply and fluid media. Video signal adopt 50Ω characteristic impedance. High-frequency signal adopts 50Ω characteristic impedance RF coaxial connector. (other specified connectors are switchable, also Lead wire size are optional, such as RG178、RG316、RG174, etc.)



### Part# Explanation



### Part# List

MHF108 channel RF rotary joint part list					
Part#	RF Channel	Frguency	10A	Signal 5A	Length (mm)
MHF108-S06	1	DC-30GHz	0	6	38
MHF108-P0610	1	DC-30GHz	6	0	38
MHF108-S12	1	DC-30GHz	0	12	54.8
MHF108-P1210	1	DC-30GHz	12	0	54.8
MHF108-P0610-S06	1	DC-30GHz	6	6	54.8
MHF108-P0410-S08	1	DC-30GHz	2	8	54.8
MHF108-P0210-S10	1	DC-30GHz	2	10	54.8
MHF108-S18	1	DC-30GHz	0	18	71.6
MHF108-P1810	1	DC-30GHz	18	0	71.6
MHF108-P0610-S12	1	DC-30GHz	6	12	71.6
MHF108-P1210-S06	1	DC-30GHz	12	6	71.6
MHF108-P0610-S18	1	DC-30GHz	6	18	88.4
MHF108-P1210-S12	1	DC-30GHz	12	12	88.4
MHF108-P1810-S06	1	DC-30GHz	18	6	88.4
MHF108-S24	1	DC-30GHz	0	24	88.4
MHF108-P2410	1	DC-30GHz	24	0	88.4
MHF108-S30	1	DC-30GHz	0	30	105.2
MHF108-S36	1	DC-30GHz	0	36	125
MHF108-S48(2A)	1	DC-30GHz	0	48	158.6

Note: 1) N channels 10A rings parallel can be used as 1 channel N\*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A  
 2) circuit number and current strength can be customized, please contact customer service for more details.

Specifications		
(RF Rotary joints) Specifications		
Parameter	Value	
Frequency	0~30GHz	
Rated Power	20W	
VSWR	<1.3	
Insertion Loss	0.3db	
VSWR Ripple	<0.05	
Insertion Loss Ripple	0.05db	
Connector Types	SMA	
Characteristic Impedance	50Ω	
Electrical Data		
Parameter	Value	
	Power	Signal
Rated Voltage	0~440VAC/VDC	0~240VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Lead Wire	AWG16# Teflon	AWG22# Teflon
Lead Length	standard length 300mm ( adjustable )	
Insulating Strength	500VAC@50Hz , 60s	
Electrical Noise	<0.01Ω	
Mechanical Data		
Parameter	Value	
Working Life	50 million revs	
Rotating Speed	150RPM	
Working Temperature	-30°C~80°C	
Operating Humidity	0~85% RH	
Contact Material	Gold-Gold	
Housing Material	aluminum alloy	
Torque	0.1N.m; +0.03N.m/6 rings	
Protection Grade	IP51	

## Options for custom slip ring

Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- ① Cable exit way and cable length can be customized for both rotor and stator.
- ② Because of the structure limitation, length/height/OD can be customized on your request.
- ③ Support current or signal up to 200 rings.
- ④ Aviation plug, terminal and heat-shrink tube are optional.
- ⑤ Hybrid slip ring for Yaskawa/Panasonic/Siemens servo control signal, power line and encoder line.
- ⑥ Support mixed high speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, EtherCAT, etc.)
- ⑦ Can combine temperature control signal with thermocouple signal.
- ⑧ Special environment can be customized, such as quakeproof, high temperature, etc.
- ⑨ Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- ⑩ Frequency value and connector type can be customized.
- ⑪ High-frequency power can be customized.
- ⑫ Channel number can be customized on your request.
- ⑬ Maximum current can up to 5000 amperes.
- ⑭ Military grade.
- ⑮ Optional for underwater IP65, Ip68.
- ⑯ Optional for stainless steel housing

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