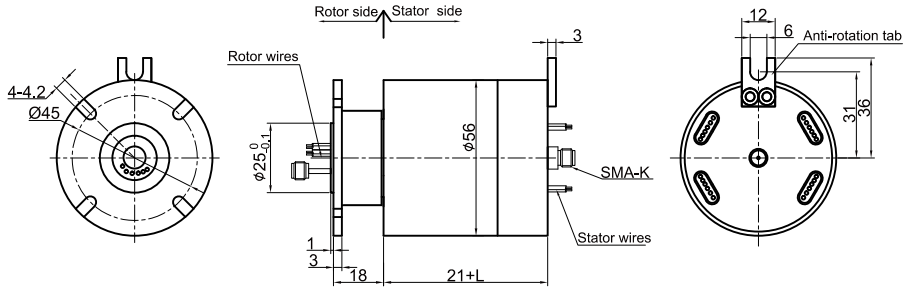
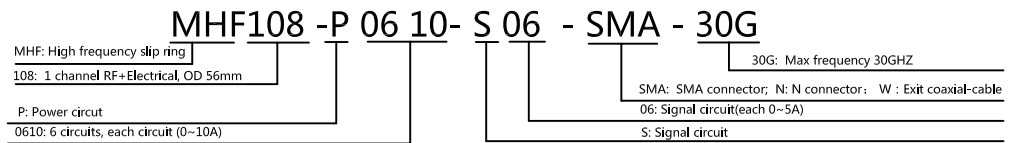


MHF108 (1 channel RF Rotary Joints+ Electric)

MHF108 is one 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 transfer rate 40GHz. This series product can support single channel high frequency transmissions, also support high-frequency signal transmission combining with 24V control signal, communication signal, power supply and fluid media. 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	Frquency	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	49.2
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	122
MHF108-S42	1	DC-30GHz	0	42	138.8

Rings and current can be customized

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	

Option for custom slip ring

Attention : it can be customized as below requirements , lead time would increase 3~15 days,price would increase 5%~50%.Most basic parts of slip ring are standard and modularized,which saved costs and lead time.

- ① through bore size,cable exit direction and lead length can be customized.
- ② length and outer diameter and can be customized.
- ③ Can max support 200 power/signal circuits.
- ④ Aviation plug,terminals and shrink tube are available.
- ⑤ Option for Yaskawa, panasonic, Siemens etc servo signal , power and encoder signal combined.
- ⑥ can support high data transmission (including,USB, Profibus , ProfiNET, Ethercat , CC-LINK, CANOPEN,CANBUS , RS232 , RS485 etc bus signal) .
- ⑦ temperature control signal,therocouple signal.
- ⑧ Anti-vibration,high-temp are optional.
- ⑨ Can combined with rotary joint.
- ⑩ Max temp can support 500 degree centigrade.
- ⑪ Max voltage can up to 110kV.
- ⑫ Max rotating speed of 10000RPM.
- ⑬ Max current up to 5000 (A) .
- ⑭ Military grade.
- ⑮ Optional for IP65,IP68 (underwater).
- ⑯ Housing materials can be stainless steel.

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