

## MHF108 (1 channel RF Rotary joints)

MHF108 is 1 channel RF Rotary joints mixed with electric wires, max 72 wires, are standard, ready available slip ring solution.

Use gold contacts at the rotary interface for signal rings, and 1 channel RF Rotary joints for large amount data transmitting.

can combine with Large current, Thermocouples, Ethernet, USB on request.



### Specifications

PART #	HANNEL	FREQUENCY	2A/SIGNAL	10A	CONNECTORS
MHF108-06S	1	DC-18GHz	6	0	SMA/N-type
MHF108-0610	1	DC-18GHz	0	6	SMA/N-type
MHF108-12S	1	DC-18GHz	12	0	SMA/N-type
MHF108-1210	1	DC-18GHz	0	12	SMA/N-type
MHF108-0610-06S	1	DC-18GHz	6	6	SMA/N-type
MHF108-18S	1	DC-18GHz	18	0	SMA/N-type
MHF108-1810	1	DC-18GHz	0	18	SMA/N-type
MHF108-24S	1	DC-18GHz	24	0	SMA/N-type

### Electric Specifications

Rating voltage	2 10 VDC / 240 VAC	Contact material	Precious Metal:Gold-Gold
Dielectric strength	600VDC@50Hz	Lead Wire	UL Teflon® Awg28
Insulation resistance	1000MΩ@500VDC	Lead Lengths	250mm
Operating Temp	-40°C to 80°C	Protection	IP51
Mechanical vibratio	MIL-SID-810E	Humidity	10% to 90% RH
Materials	Lead Free,RoHS compliant	CE Certified	YES

### (RF Rotary joints) Specifications

Max speed	60RPM	Torque	0.2N.m
Frequency	0-18Ghz	Insertion loss	0.3dB
Insertion loss ripple	0.05dB	VSWR	≤ 1.3
VSWR ripple	0.05	Start up torque	0.1N.m
Estimated life cycle	100 million	Housing materia	Stainless steel
Working temperature	-40 to 85 °C	Storage temperature	-50 to 85 °C
IP rating	IP 68	Weight	50g

### Drawings

12 wires for one group color. from 13 ... 24, repeat the same color as 1 ... 12, indicated with number code pipe.

#### Lead wire Color codes

Rings#	Color Code	Rings#	Color Code	Rings#	Color Code
1	BLK	5	YEL	9	GRY
2	BRN	6	GRN	10	WHT
3	RED	7	BLU	11	PINK
4	ORN	8	PURPLE	12	AZURY

### Options

- Optional flange mounting.
- Specified the wire exit direction.
- Can combine more electric wires: 1-72Ring
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- Shielded cables
- Connectors
- Environmentally Sealed up to IP68@4Mpa
- Frequencies up to 500 MHz
- High-speed data transmission for fast Ethernet and EtherCat
- Signal, Coax, and Power combinations
- High Speed up to 20,000 rpm
- Thermocouples
- Shock, Vibration, and Temperature Qualified
- Pneumatic/Hydraulic Capability
- High temperature---up to 450 degree
- High Voltage & large Current(1000A)
- IP65,IP68 are avialable.
- Military Grade.

### Build on Request

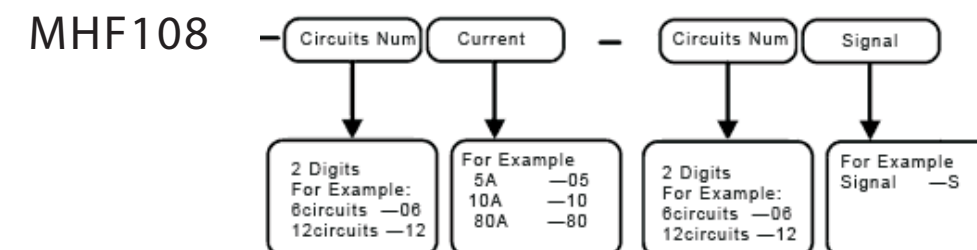
Build On Your Request/Special requirements

when we can't find any one of standard part# to fit our application, what should we do?

Great! Moflon supply build-on-request service base on MHF108 series, the delivery time of build-on-request is 2~3 weeks, and price is only 20%~50% more than the standard version.

Now, Let's start - how to build on request?

Please see ordering information instructions as below:



For example:

if order MHF108 with 3wires\*15A each + 12wires\*signal, the model should be **MHF108-0315-12S**.

if order MHF108 with 12wires\*signal + 3wires\*80A, the model should be **MHF108-0380-12S**

Please note: MHF108 could combine with Ethernet, Coaxial(RF), USB, and so on.

if you have other optional requirements, such as lead wire length, connectors, military grade, Please describe in your email.