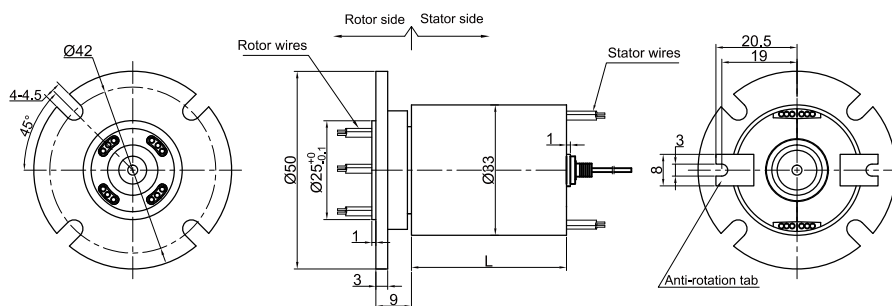
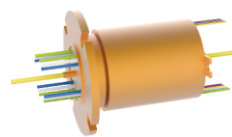


# MHF107 Series

## 1 Channel Rf Rotary Joints+electric Slip Ring

MHF107 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 3GHz. 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

MHF: High frequency slip ring	107: 1 channel RF+Electrical, OD 33mm	P: Power ring	0610: 6 rings, each ring (0~10A)	06: Signal ring (each 0~5A)	S: Signal ring	3G: Max frequency 3GHz
				W50: Exit coaxial-cable RG178 Wires/50Ω		W75: Exit coaxial-cable RG179 Wires/75Ω

### Part# List

MHF107 channel RF rotary joint part list					
Part#	RF Channel	Frequncy	10A	Signal 5A	Length ( mm )
MHF107-S06	1	DC-3GHz	0	6	25.4
MHF107-S12	1	DC-3GHz	0	12	39.2
MHF107-S18	1	DC-3GHz	0	18	53
MHF107-S24	1	DC-3GHz	0	24	66.8

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		Mechanical Data	
Parameter	Value	Parameter	Value
Frequency	0~3GHz	Working Life	50 million revs
Rated Power	5W	Rotating Speed	150RPM
VSWR	<1.3	Working Temperature	-30°C~80°C
Insertion Loss	0.3db	Operating Humidity	0~85% RH
VSWR Ripple	<0.05	Contact Material	Gold-Gold
Insertion Loss Ripple	0.05db	Housing Material	aluminum alloy
Connector Types	Exit coaxial-cable directly	Torque	0.1N.m ; +0.03N.m/6 rings
Characteristic Impedance	50Ω or 75Ω	Protection Grade	IP51
Electrical Data			
Parameter	Value		Signal
Rated Voltage	0~400VAC/VDC		0~240VAC/VDC
Insulation Resistance	≥1000MΩ/500VDC		≥1000MΩ/500VDC
Lead Wire	AWG22#teflon		AWG22#teflon
Lead Length	Standard length 300mm(adjustable)		
Insulating Strength	500VAC@50Hz,60s		
Electrical Noise	<0.01Ω		