# TMRJ-HF50G156-0018-2

RF Rotary Joint Slip Ring, Single Channel DC~50GHz, OD 56mm, 2.4mm female

#### **FEATURES**

- Low Contact Resistance
- Large Volume Data Transmission without Delay
- Long Lifetime

### **APPLICATIONS**

- Radar Antennas
- Satellite Communication Systems
- Medical Treatment Equipment
- Robotics

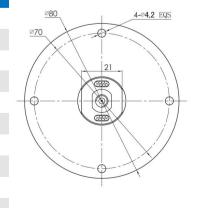


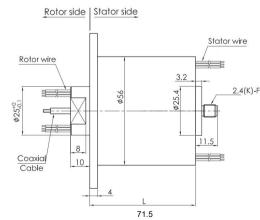
<b>Electrical Specification</b>	<b>ons</b> [Rotary Joint]	
Frequency	DC~50GHz	
VSWR	1.3 max@DC~10GHz	
	1.4 max@10~18GHz	
	1.7 max@26.5~50GHz	
VSWR Ripple	0.05 max@DC~26.5GHz	
	0.2 max@26.5~50GHz	
Insertion Loss	1dB@DC~26.5GHz	
	2dB@26.5~50GHz	
Insertion Loss Ripple	0.3dB max@DC~10GHz	
	0.5dB max@10~26.5GH	
	0.9dB max@26.5~50GH	
Phase WOW	1° max	
Average Power	50W max@1GHz	
	15W max@10GHz	
	5W max@26.5GHz	
	3W max@50GHz	
Peak Power	500W max	
Protection Degree	IP 40 acc. EN 60529	
Mechanical Specifications (Rotary Joint)		

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Connector Type	2.4mm female	
Working Life	10 Million Revs	
Rotating Speed	150 rpm max	
Starting Torque	0.5N.cm max	
Rotating Torque	0.5N.cm max	
Connector Axial Load	$\pm 0.1N$ max	
Connector Radial Load	$\pm 0.1N$ max	
Contact Material	PTFE	
Operating Humidity	0~85%RH	
Operating Temperature	-55°C~+85°C	
Storage Temperature	-55°C~+85°C	

Specifications[Slip Ring]	
Voltage Range(power)	0~440VAC/VDC
Voltage Range(signal)	0~240VAC/VDC
Insolution Resistance(power)	≥500MΩ@500VDC
Insolution Resistance(signal)	≥300MΩ@300VDC
Lead Cable Size(power)	AWG#17 Silver-plated teflor
Lead Cable Size(signal)	AWG#22 Silver-plated teflo
Lead Cable Length	Standard 250mm(rotor/state
Dielectric Strength	300VAC@50Hz, 60s
Dielectric Noise	0.01Ω max
z Working Life	10 Million Revs
z Rotating Speed	250 rpm max
Contact Material	Gold-Gold
Housing Material	Aluminum alloy
Temperature	-30°C~+80°C
Operating Humidity	0~85%RH
Torque	0.05N.m+0.01N.m/6 chann
Protection Degree	IP51

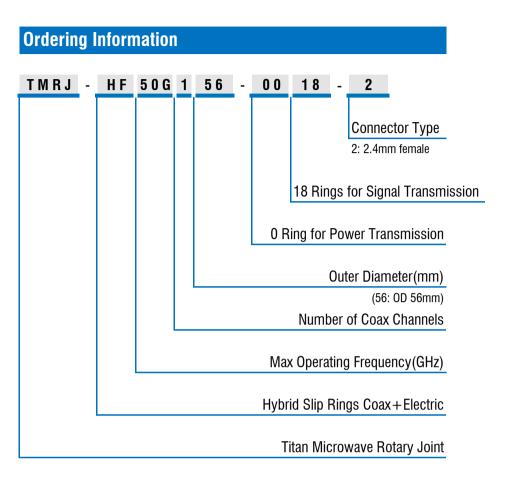
### **Dimensions**[mm]





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♦ Customization is available upon specific requests