

# TMRJ-HF18G156-1200-S

RF Rotary Joint Slip Ring, Single Channel DC~18GHz, OD 56mm, SMA female

#### **FEATURES**

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

#### **APPLICATIONS**

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



Electrical Specifications[Rotary Joint]				
Frequency	DC~18GHz			
VSWR	1.3 max@DC~10GHz			
	1.4 max@10~18GHz			
VSWR Ripple	0.05 max			
Insertion Loss	0.25dB@DC~10GHz			
	0.3dB@10~18GHz			
Insertion Loss Ripple	0.05dB max			
Phase WOW	1° max			
Average Power	500W max@1GHz			
	200W max@6GHz			
	100W max@12GHz			
	30W max@18GHz			
Peak Power	3000W max			
Protection Degree	IP 40 acc. EN 60529			

Mechanical Specifications[Rotary Joint]	Mechanical
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Connector Type	SMA female
Working Life	10 Million Revs
Rotating Speed	250 rpm max
Starting Torque	0.5N.cm max
Rotating Torque	0.5N.cm max
Connector Axial Load	±0.1N max
Connector Radial Load	±0.1N max
Contact Material	PTFE
Operating Humidity	0~85%RH
Operating Temperature	-55°C~+85°C
Storage Temperature	-55°C~+85°C

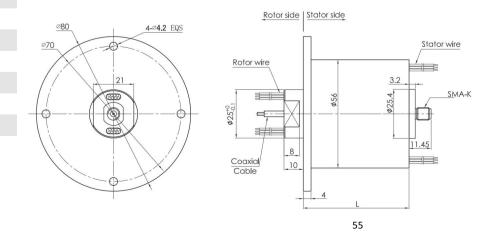
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Voltage Range(power)	0~440VAC/VDC
Voltage Range(signal)	0~240VAC/VDC
Insolution Resistance(power)	≥500MΩ@500VDC
Insolution Resistance(signal)	≥300MΩ@300VDC
Lead Cable Size(power)	AWG#17 Silver-plated teflon
Lead Cable Size(signal)	AWG#26 Silver-plated teflon
Lead Cable Length	Standard 250mm(rotor/stator)
Dielectric Strength	500VAC@50Hz, 60s
Dielectric Noise	0.01Ω max
Working Life	10 Million Revs
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 channels

**IP51** 

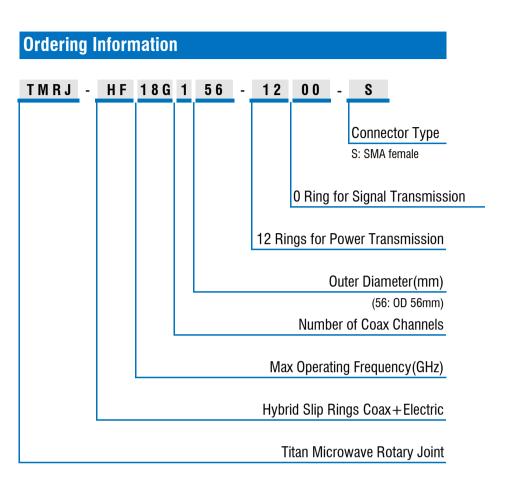
### **Dimensions**[mm]

**Protection Degree** 



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♦ Customization is available upon specific requests