

TMRJ-HF18G156-1212-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		

Connector Type	SIVIA Terriale
Working Life	10 Million Revs
Rotating Speed	250 rpm max
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Mechanical Specifications[Rotary Joint]

Starting Torque

Rotating Torque

0.5N.cm max

0.5N.cm max

Connector Axial Load

±0.1N max

Connector Radial Load

±0.1N max

Contact Material

PTFE

Operating Humidity

0~85%RH

-55°C~+85°C

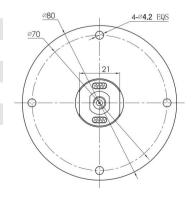
-55°C~+85°C

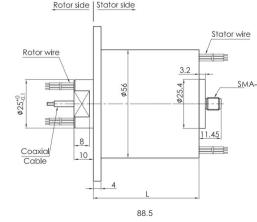
	Specif	icat	ions[Slip	Ring]
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Voltage Range(power)	0~440VAC/VDC	
Voltage Range(signal)	0~240VAC/VDC	
Insolution Resistance(power)	≥500MΩ@500VDC	
Insolution Resistance(signal)	≥300MΩ@300VDC	
Lead Cable Size(power)	AWG#17 Silver-plated teflon	
Lead Cable 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	

Dimensions[mm]

Protection Degree



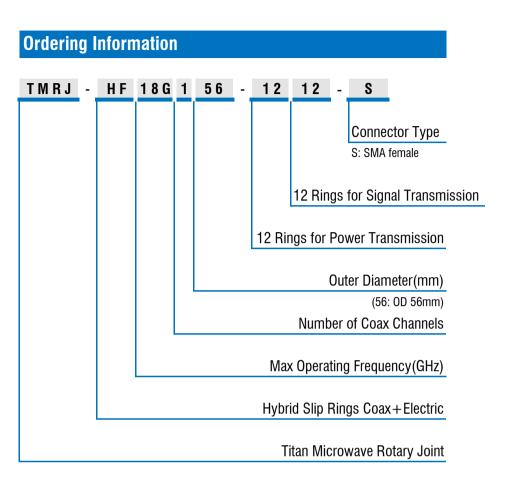


IP51

Operating Temperature Storage Temperature

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♦ Customization is available upon specific requests