## TMRJ-HF50G156-0012-2 **RF Rotary Joint Slip Ring, Single Channel** DC~50GHz, OD 56mm, 2.4mm female

## **FEATURES**

- Low Contact Resistance
- Large Volume Data Transmission without Delay

A Professional RF & Microwave Components Supplier

TITAN MICROWAVE INC.

成都巨人微波

Long Lifetime

## **APPLICATIONS**

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

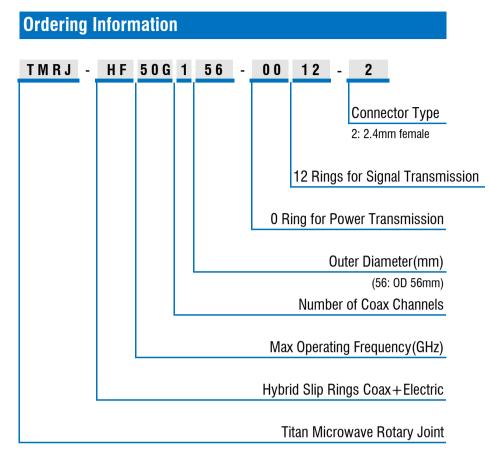


<b>Electrical Specification</b>	DNS[Rotary Joint]	Specifications[Slip Ring]	
Frequency	DC~50GHz	Voltage Range(power)	0~440VAC/VDC
VSWR	1.3 max@DC~10GHz	Voltage Range(signal)	0~240VAC/VDC
	1.4 max@10~18GHz	Insolution Resistance(power)	≥500MΩ@500VDC
	1.7 max@26.5~50GHz	Insolution Resistance(signal)	≥300MΩ@300VDC
VSWR Ripple	0.05 max@DC~26.5GHz	Lead Cable Size(power)	AWG#17 Silver-plated teflon
	0.2 max@26.5~50GHz	Lead Cable Size(signal)	AWG#22 Silver-plated teflon
Insertion Loss	1dB@DC~26.5GHz	Lead Cable Length	Standard 250mm(rotor/stator)
	2dB@26.5~50GHz	Dielectric Strength	300VAC@50Hz, 60s
Insertion Loss Ripple	0.3dB max@DC~10GHz	Dielectric Noise	0.01Ω max
	0.5dB max@10~26.5GHz	z Working Life	10 Million Revs
	0.9dB max@26.5~50GHz	z Rotating Speed	250 rpm max
Phase WOW	1° max	Contact Material	Gold-Gold
Average Power	50W max@1GHz	Housing Material	Aluminum alloy
	15W max@10GHz	Temperature	-30°C~+80°C
	5W max@26.5GHz	Operating Humidity	0~85%RH
	3W max@50GHz	Torque	0.05N.m+0.01N.m/6 channel
Peak Power	500W max	Protection Degree	IP51
Protection Degree	IP 40 acc. EN 60529	Dimensions[mm]	
<b>Mechanical Specifica</b>	tions[Rotary Joint]		Rotor side   Stator side
Connector Type	2.4mm female	<u>∅80</u> 4-∅4.2 EQS	
Working Life	10 Million Revs	·70	Rotor wire
Rotating Speed	150 rpm max	21	
Starting Torque	0.5N.cm max		
Rotating Torque	0.5N.cm max –	[\$\$-}  -\$\$\$\$	025 <sup>10</sup>
Connector Axial Load	±0.1N max		
Connector Radial Load	$\pm 0.1N$ max		
Contact Material	PTFE	V	
Operating Humidity	0~85%RH		- <u>4</u> L
Operating Temperature	-55°C~+85°C		55
Storage Temperature	-55°C~+85°C		

All products specifications are subject to change without notice.



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 $\diamond$  Customization is available upon specific requests  $\diamond$ 

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