Rotary Joints

HRM-RPA Series



■Features

1.Long Life

These non-contact rotary joints have a long life of 10³ hours or greater (at 500 r.p.m.).

2. High Performance

High frequency characteristics feature extremely low loss and a high degree of matching.

V.S.W.R. 1.25 or less (HRM-RPA-JJ-3 1.5~1.7GHz)

3.Low Torque Rotation

Rotation at low torque permits high speed rotation. Torque of 50 g·cm

■Product Specifications

Ratings	Frequency range (Note) Characteristic impedance Maximum Input Power (Note)	50 onms	Operating temperature range Operating relative humidity	-10℃ to +65℃ 95% Max.
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NOTE: The frequency range and maximum usable power will depend on the model.

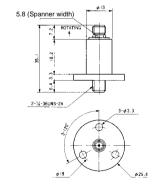
Item	Standard	Conditions
1.Insulation resistance	1,000 M ohms min.	100 V DC
2.Contact resistance	5 m ohms max.	Measured / 1 A DC
3.Vibration		Frequency of 10 to 500 Hz, overall amplitude of 1.5 mm,
3. VIDIALION	No damage, cracks, or parts dislocation	acceleration of 98 m/s ² for 4 hours in each of 3 directions
4.Shock		Acceleration of 98 m/s², sine half-wave waveform, 3 cycles in each of the 3 axis

[●]The test method conforms to MIL-STD-202.

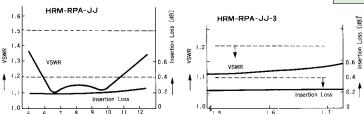
■Materials

Part	Materials	Finish
Body	Brass	Nickel plating
Insulator	PTFE	
Female contact	Beryllium copper	Gold plating
Ball bearings		

■External Dimensions



■Typical Data



■Specifications

Part Number	HRM-RPA-JJ-3	HRM-RPA-JJ
Frequency Range (GHz)	1.5~1.7	5~12.4
V.S.W.R.(Max)	1.25	1.5
Insertion Loss (dB Max)	0.4	0.4
WOW (dB/360° Max)	0.2	0.1
V.S.W.R. Rotational (360° Max)	0.2	0.1
Rotational Speed (R·P·M)	500	500
Durability(Insertion/withdrawal) (hrs)	1,000 (at 500R·P·M)	1,000 (at 500R·P·M)
Starting Torque (mN·m Max)	510	510
Connectors	HRM-J	HRM-J
Weight (g)	30	30