

WR340 Dual Channel High Power Waveguide Rotary Joint 2.2GHz-3.3GHz (10% BW)



Note: Photo is for illustration purposes only.
Please refer to outline drawing.

Features

- Waveguide Rotary Joint
- Full band operation
- Low VSWR
- Rugged mechanical configuration

Product Description

RFWRJ340DU is a WR340 dual channel high power waveguide rotary joint with a frequency range of 2.2 to 3.3GHz (Must select a 10% BW within this range)

The average power handling of the rotary joint is 2200W.

The waveguide type is WR340.

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications ($T_A=+25^{\circ}\text{C}$)

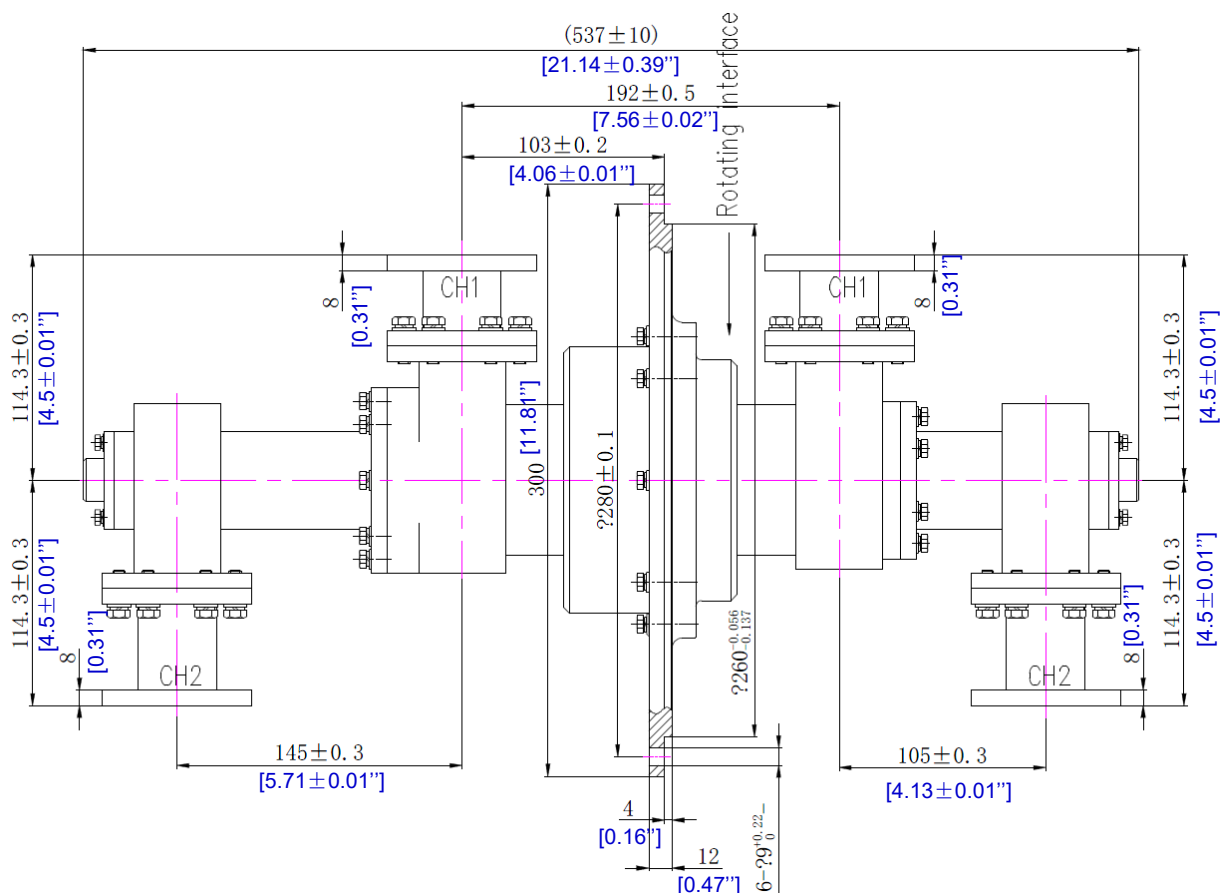
Parameter		Min	Typ	Max	Units
* Frequency Range		2.2		3.3	GHz
VSWR				1.2	: 1
Insertion loss				0.2	dB
Bandwidth			10		%
Power Handling	Average		2200		W
	Peak		1100		KW
Waveguide type			WR340		
Flange Type			UG1713/U		

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-50°C to +105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
*Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

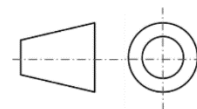
*For vibration testing details please see additional information section.

Outline Drawing



Notes:

1. Package Material: Aluminum
2. Inside finish: Chromate conversion; Outside finish: Anticorrosion grey paint
3. All dimensions are in millimeters [inches].
4. The tolerance noted is just for reference.



Additional Information

Documentation

ESD Policy

https://rflambda.com/pdf/rflambda_esd_control.pdf

Connector Torque Specifications

https://www.rflambda.com/pdf/Torque_Specifications.pdf

Random Vibration Test Standard

https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Webpage

Ordering Information

Part Number	Modification	Description
RFWRJ340DU	WR340	2.2GHz-3.3GHz Waveguide Rotary Joint

Important Notice

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