

# WR340 Dual Crossguide Directional Coupler 2.2GHz – 2.7GHz



Rugged mechanical configuration

Features

Ful band operation

Low VSWR

#### **Product Description**

RWGDCP340SC is a dual crossguide directional coupler with a frequency range of 2.2 to 2.7GHz.

The power handling for this dual directional coupler is 500W. The maximum insertion loss is 0.3dB with a minimum directivity of 20dB.

The working temperature of this product is between - 40°C and + 85°C.

#### **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, TA = +25°C

Parameter	Min	Тур	Max	Units
Frequency Range	2.2		2.7	GHz
Coupling Forward		40±1.5		dB
Directivity		20		dB
Insertion Loss		0.3		dB
VSWR (Main line)			1.1	: 1
Power handling		500		W
Waveguide Type	WR340			
Flange Type	CPRF			
Input / Output Connectors	N-Female			



### **Environmental Specifications and Test Standards**

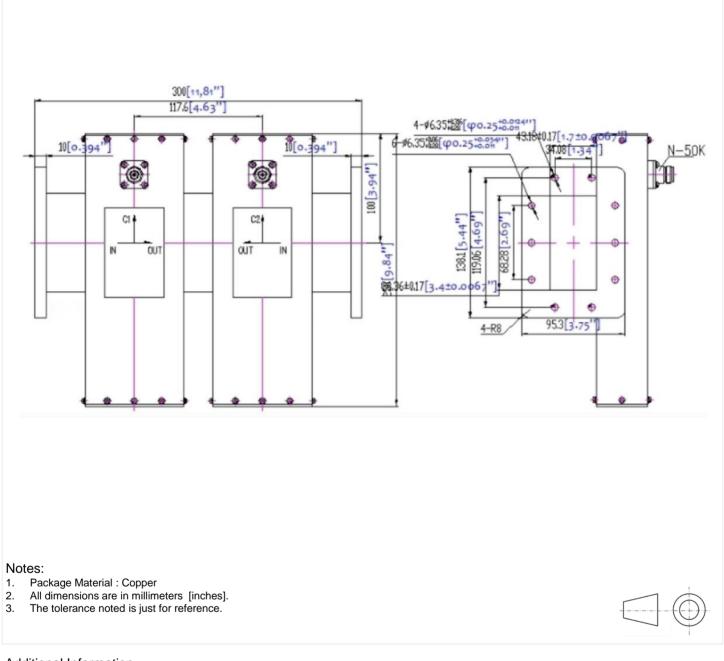
Parameter	Description		
Operational Temperature	-45°C to +85°C (Case Temperature)		
Storage Temperature	-55°C to +125°C		
Thermal Shock	-45°C → +85°C (5 Cycles / 10 hours)		
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis		
Shock	<ol> <li>Weight &gt;20g, 50g half sine wave for 11ms, Speed variation 3.44m/s</li> <li>Weight &lt;=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s</li> <li>Total 18 times (6 directions, 3 repetitions per direction).</li> </ol>		
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.

# RWGDCP340SC



## **Outline Drawing**



Additional Information

Documentation	Webpage		
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		



#### **Ordering Information**

Part Number	Modification	Description
RWGDCP340SC	WR340	2.2GHz-2.7GHz Dual Crossguide Directional Coupler

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