

**WR90 to N Female Waveguide to Coaxial Adapter  
PDR100 Flange, Right Angle**

Rev 5

**Electrical**

Frequency Range	8.2-12.5 GHz
VSWR	1.2 max

**Configuration**

Waveguide Size	IEC	R100
	EIA	WR90
Flange	IEC	PDR100
	North America	Al alloy :M3922/52-044(UG1361/U) Cu alloy:M3922/52-043(UG1360/U)
Coax Connector	N Female	
Body Geometry	Right Angle	

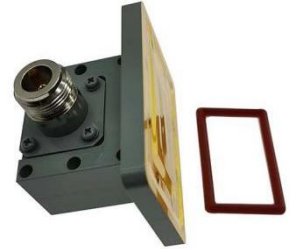
**Mechanical & Environmental**

Waveguide Body	Aluminum, conductive oxidation, anti-corrosive paint
Connector Body	Passivated stainless steel
Center Contact	Gold plated beryllium copper
Operating Temperature	-40°C to +85°C
Connector Interface	MIL-STD-348
RoHS	Compliant under exemptions 6 (b) or 6 (c)
Net Weight	Approx 83g

**Note**

\* Flange size may not be 100% identical with the above listed standards, but are compatible. Refer to the next page for comparison table.

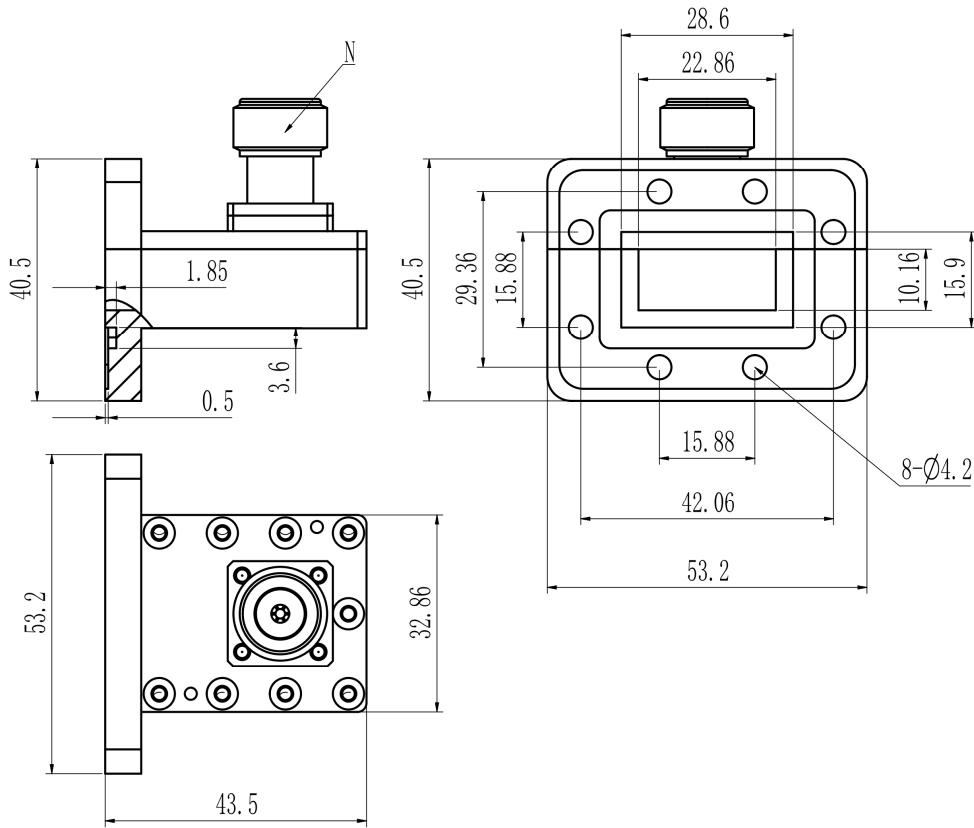
\* Paint in grey or black by default, other colors available.



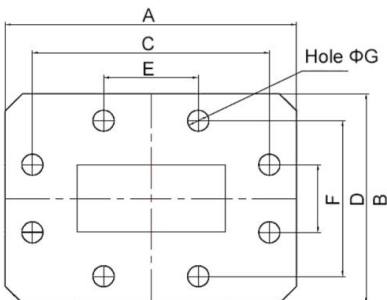
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**Dimensions(mm)**



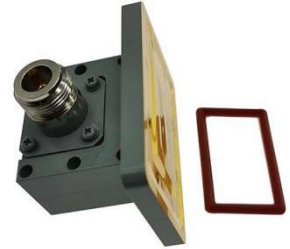
**Flange Comparison (mm)**



\* The purpose of this comparison is to provide a quick reference of different flange standards. Great care has been given, nevertheless there might be a few mistakes.

\* Please check the flange compatibility before ordering. Customized flanges are available.

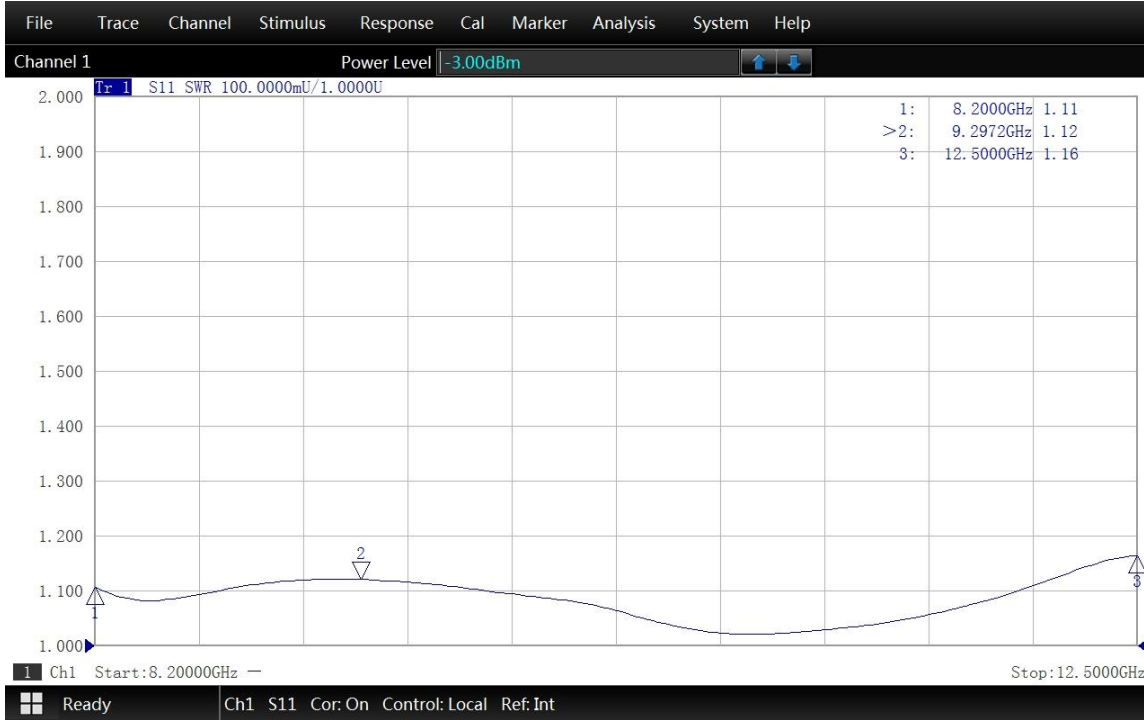
WG SIZE	CONFORMING STANDARD	A	B	C	D	E	F	G
WR90	RF ONE:AWR90NG	53.2	40.5	42.06	29.36	15.88	15.88	4.2
	IEC60154:PDR100	53.2	40.5	42.06	29.36	15.88	15.88	4.00
	USA:M3922/52-044	53.09	40.39	42.06	29.36	15.84	15.9	4.29



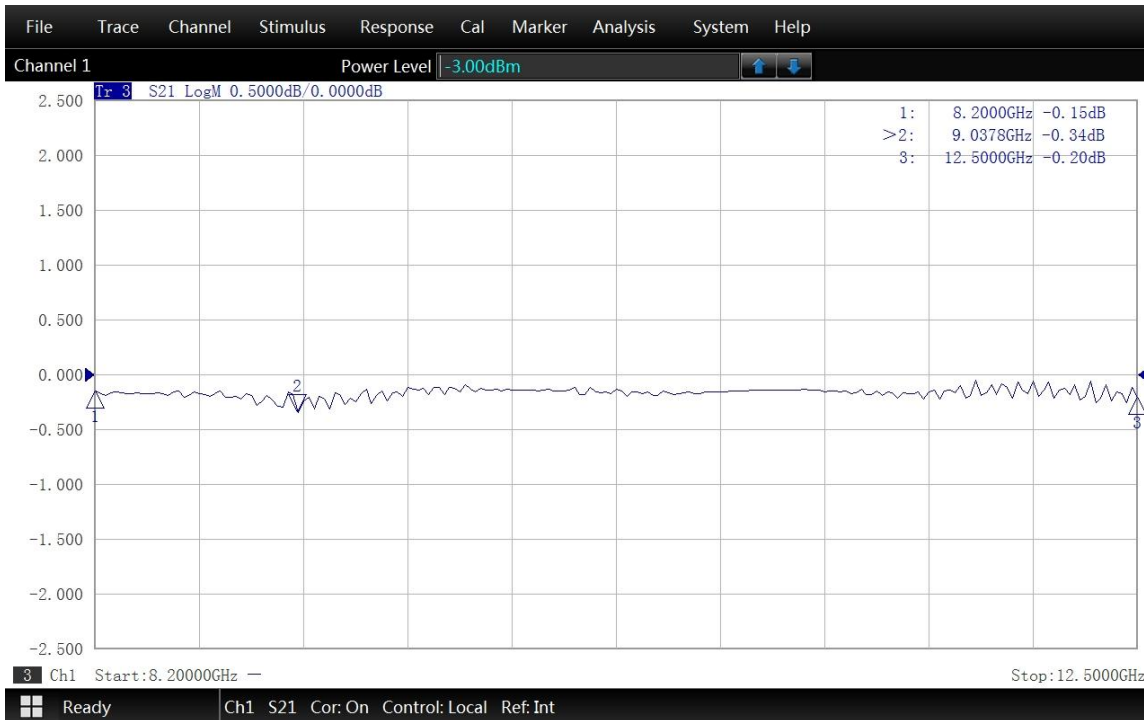
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**Typical Test Data at 25°C**



VSWR



Insertion Loss\*

\* In Insertion Loss (IL) testing, adapters are measured back-to-back. To obtain the loss of a single adapter, divide the measured value by two.