

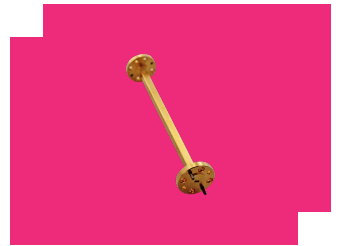
WS-1000400WG

WR-10 Straight Waveguide, 6 in.

DEVICE OVERVIEW

General Description

WR-10 6" Marki Microwave Straight Waveguides, operating from 75-110 GHz, are built with high precision and gold plated for high corrosion resistance. They have very low loss and excellent VSWR. Manufactured to rigid specifications, these transmission line components provide minimum detrimental effects on overall system VSWR.



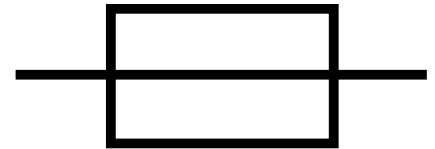
Features

- Copper waveguide
- Brass UG-387/U flanges
- Gold plated
- Very low loss

Applications

- 5G
- Radar
- Communication Systems
- Satellite Communications

Functional Block Diagram



Part Ordering Options

Part Number	Description	Package	Green Status	Product Lifecycle	Export Classification
WS-1000300WG	WR-10 Straight Waveguide, 3 in.	WR-10	REACH RoHS	Released	EAR99
WS-1000200WG	WR-10 Straight Waveguide, 2 in.	WR-10	REACH RoHS	Released	EAR99
WS-1000400WG	WR-10 Straight Waveguide, 6 in.	WR-10	REACH RoHS	Released	EAR99
WS-1000100WG	WR-10 Straight Waveguide, 1 in.	WR-10	REACH RoHS	Released	EAR99

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Revision History

Revision Code	Revision Date	Comment
-	2024-05-01	Initial Release

Port Configuration and Functions

Port Functions

Port	Function	Connector Type	Description	Equivalent Circuit for Package
Port 1	RF Input / Output	-	RF input/output port	-
Port 2	RF Input / Output	-	RF input/output port	-

Specifications

Package Information

Parameter	Details	Rating
Dimensions	-	L = 6 in.

Electrical Specifications

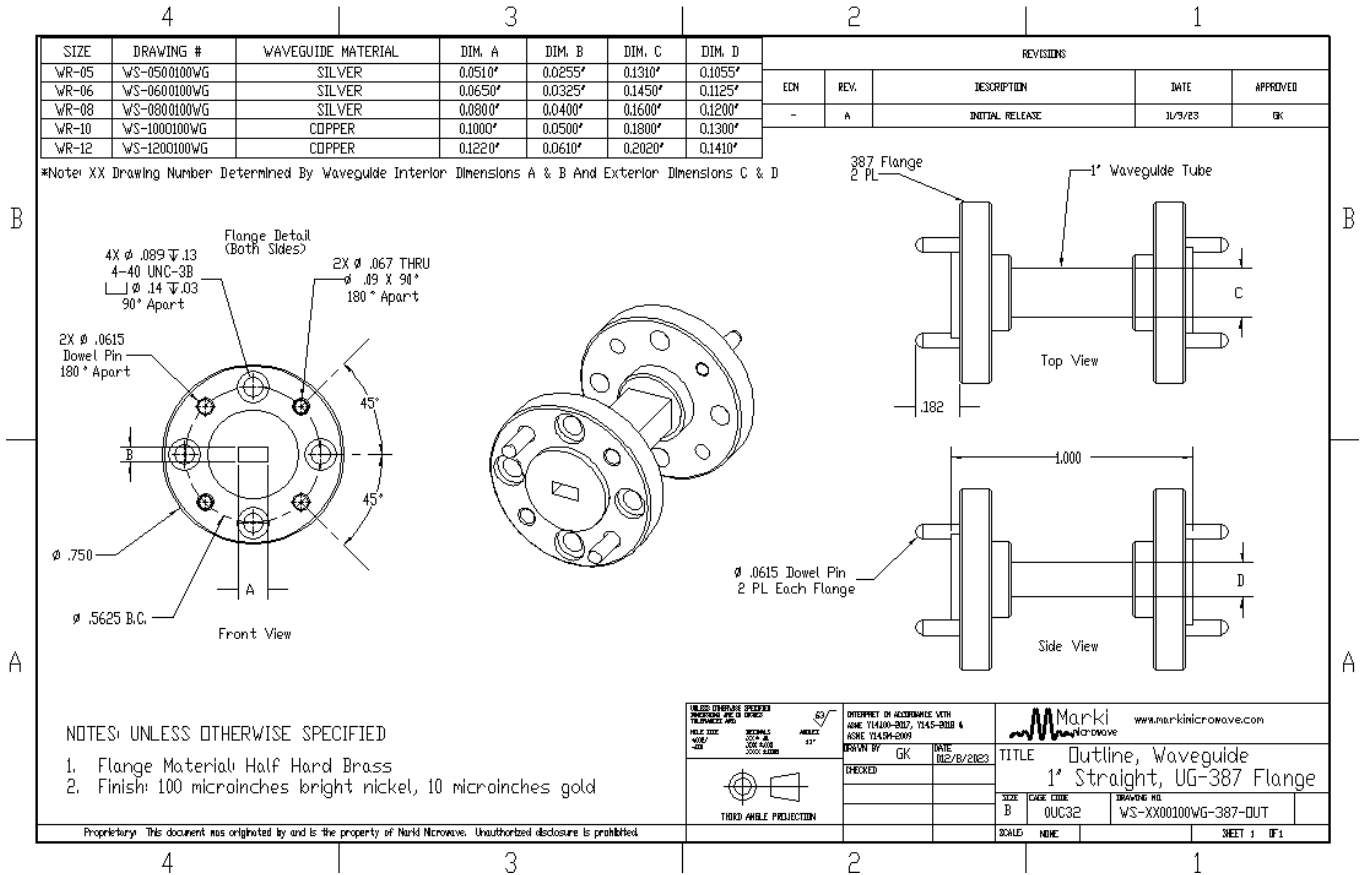
Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Insertion Loss ¹	-	75	110	-	0.13	-	dB
Return Loss	-	75	110	-	37	-	dB

^[1] Typical insertion loss per inch.

Mechanical Data

Outline Drawing

Download : [Outline 2D Drawing](#) | [Outline 3D STP](#)



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