

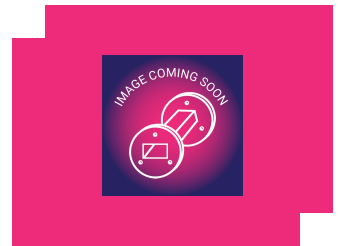
WS-2800100WG

WR-28 Straight Waveguide, 26.5GHz to 40GHz, 1 in

DEVICE OVERVIEW

General Description

WR-28 Straight Waveguide 1", Square Flange. Custom lengths available upon request. Marki Microwave straight waveguides are built with high precision and then 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

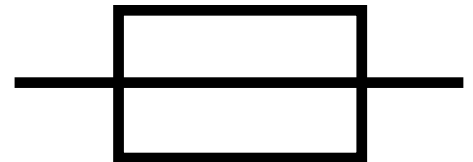
- 26.5 to 40GHz operation
- EIA WR-28 rectangular waveguide
- UG-599/U input and output flanges
- Copper construction
- Brass flanges
- Gold plated
- Very low loss

Applications

- 5G
- Radar
- Satellite Communications
- Digital Communications

Functional Block

Diagram



Part Ordering Options

Part Number	Description	Package	Green Status	Product Lifecycle	Export Classification
WS-2800600WG	WR-28 Straight Waveguide 6". Custom lengths available upon request.	-	REACH RoHS	Released	EAR99
WS-2800300WG	WR-28 Straight Waveguide 3". Custom lengths available upon request.	-	REACH RoHS	Released	EAR99
WS-2800100WG	WR-28 Straight Waveguide, 26.5GHz to 40GHz, 1 in	WR-28	REACH RoHS	Released	EAR99
WS-2800200WG	WR-28 Straight Waveguide 2". Custom lengths available upon request.	-	REACH RoHS	Released	EAR99

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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	-	WR-28

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Electrical Specifications

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Frequency Range	-	-	-	26.5	-	40	GHz
Insertion Loss ¹	-	26.5	40	-	0.1	-	dB
VSWR	-	26.5	40	-	1.03	-	-

^[1] Typical insertion loss per inch.

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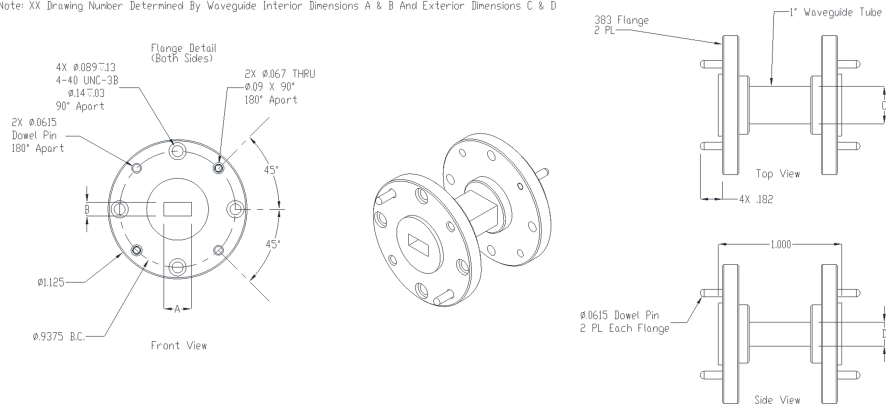
Mechanical Data

Outline Drawing

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

SIZE	DRAWING #	WAVEGUIDE MATERIAL	DIM. A	DIM. B	DIM. C	DIM. D	REVISIONS				
							EDN	REV.	DESCRIPTION	DATE	APPROVED
WR-19	WS-1900100WG	COPPER	0.188"	0.094"	0.268"	0.174"	-	A	INITIAL RELEASE	11/26/23	GK
WR-22	WS-2200100WG	COPPER	0.224"	0.112"	0.304"	0.192"					
WR-28	WS-2800100WG	COPPER	0.280"	0.140"	0.360"	0.220"					

*Note: XX Drawing Number Determined By Waveguide Interior Dimensions A & B And Exterior Dimensions C & D



NOTES: UNLESS OTHERWISE SPECIFIED

1. Flange Material: Half Hard Brass
2. Finish: 100 microinches bright nickel, 10 microinches gold



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