



**Model WF/WR/WS/WT (90°)/WB(90°)  
Microwave Waveguide**

AR offers a standard product line of low loss microwave waveguide. These models were selected for use with AR equipment with waveguide outputs, such as TWT amplifiers and high-frequency horn antennas. Contact factory with inquiries on additional configurations. All microwave waveguides on this specification are export-classified as EAR99.

**WB Series E- or H- Bend 90° Rigid Waveguide**

Model No.	Type	Frequency	Attenuation (dB/meter)	Length cm (ft)	VSWR	Power (watts)
WB250E	WRD-250 D30	2.5-7.5 GHz	0.03	22.875 cm (.75')	1.1:1	4800
WB250H	WRD-250 D30	2.5-7.5 GHz	0.03	22.875 cm (.75')	1.1:1	4800
WB750E	WRD-750 D24	7.5-18 GHz	0.33	7.625 cm (.25')	1.12:1	4800
WB750H	WRD-750 D24	7.5-18 GHz	0.33	7.625 cm (.25')	1.12:1	4800
WB180E	WRD-180 C24	18-40 GHz	1.5	3.9 (.13')	1.1:1	450
WB180H	WRD-180 C24	18-40 GHz	1.5	3.9 (.13')	1.1:1	450

**WF Series Flexible, Twistable Waveguide**

Model No.	Type	Frequency	Attenuation (dB/meter)	Length cm (ft)	VSWR	Power (watts) CW
WF12100	WR-90	8.2-12.4 GHz	.34	100 cm (3.28')	1.1:1	1000
WF1830	WRD-750 D24	7.5-18 GHz	1.15	30.5 cm (1')	1.20:1	650
WF1860	WRD-750 D24	7.5-18 GHz	1.15	60.96 cm (2')	1.20:1	650
WF1890	WRD-750 D24	7.5-18 GHz	1.15	91.44 cm (3')	1.20:1	650
WF18100	WRD-750 D24	7.5-18 GHz	1.15	100 cm (3.28')	1.20:1	650
WF18120	WRD-750 D24	7.5-18 GHz	1.15	122 cm (4')	1.20:1	650
WF18150	WRD-750 D24	7.5-18 GHz	1.15	152 cm (5')	1.20:1	650
WF18180	WRD-750 D24	7.5-18 GHz	1.15	183 cm (6')	1.20:1	650
WF18200	WRD-750 D24	7.5-18 GHz	1.15	200 cm (6.56')	1.20:1	650
WF18240	WRD-750 D24	7.5-18 GHz	1.15	243 cm (8')	1.20:1	650
WF19100	WR-62	12.4-18 GHz	.54	100 cm (3.28')	1.2:1	400
WF2615	WR-42	18-26.5 GHz	1.0	15.25 cm (0.5')	1.2:1	100
WF2030	WRD-650	6.0-18 GHz	1.15	30.5 cm (1')	1.20:1	600
WF2045	WRD-650	6.0-18 GHz	1.15	45.75 cm (1.5')	1.20:1	600
WF2090	WRD-650	6.0-18 GHz	1.15	91.44 cm (3')	1.20:1	600
WF2630	WR-42	18-26.5 GHz	1.0	30.50 cm (1')	1.2:1	100
WF2645	WR-42	18-26.5 GHz	1.0	45.75 cm (1.5')	1.2:1	100
WF26100	WR-42	18-26.5 GHz	1.0	100 cm (3.28')	1.2:1	100
WF26150	WR-42	18-26.5 GHz	1.0	150 cm (4.92')	1.2:1	100
WF4015	WR-28	26.5-40 GHz	1.64	15.25 cm (0.5')	1.35:1	75
WF4030	WR-28	26.5-40 GHz	1.64	30.50 cm (1')	1.35:1	75
WF4045	WR-28	26.5-40 GHz	1.64	45.75 cm (1.5')	1.35:1	75
WF4090	WR-28	26.5-40 GHz	1.64	91.44 cm (3')	1.35:1	75
WF40100	WR-28	26.5-40 GHz	1.64	100 cm (3.28')	1.35:1	75
WF40150	WR-28	26.5-40 GHz	1.64	150 cm (4.92')	1.35:1	75
WF4100	WR-284	2.5-4 GHz	0.056	100 cm (3.28')	1.06:1	4000
WF8100	WRD-350 D24	4-7.5 GHz	0.315	100 cm (3.28')	1.30:1	800

## WR Series Rigid Waveguide

Model No.	Type	Frequency	Attenuation (dB/meter)	Length cm (ft)	VSWR	Power (watts)
WR1820	WRD-750 D24	7.5-18 GHz	0.40	20.3 cm (8")	1.2:1	3000
WR1830	WRD-750 D24	7.5-18 GHz	0.40	30.5 cm (1')	1.1:1	3000
WR1857	WRD-750 D24	7.5-18 GHz	0.40	57.5 cm (1.885')	1.2:1	3000
WR1860	WRD-750 D24	7.5-18 GHz	0.40	60.96 cm (2')	1.1:1	3000
WR1890	WRD-750 D24	7.5-18 GHz	0.40	91.44 cm (3')	1.1:1	3000
WR18120	WRD-750 D24	7.5-18 GHz	0.40	122 cm (4')	1.1:1	3000
WR18150	WRD-750 D24	7.5-18 GHz	0.40	152 cm (5')	1.1:1	3000
WR18300	WRD-750 D24	7.5-18 GHz	0.40	300 cm (9.84')	1.1:1	3000
WR2030	WRD-650	6.0-18 GHz	0.5	30.5 cm (1')	1.1:1	2600
WR2060	WRD-650	6.0-18 GHz	0.5	60.96 cm (2')	1.1:1	2600
WR2090	WRD-650	6.0-18 GHz	0.5	91.44 cm (3')	1.1:1	2600
WR2630	WR-42	18-26.5 GHz	0.79	30.5 cm (1')	1.15:1	350
WR2660	WR-42	18-26.5 GHz	0.79	60.96 cm (2')	1.12:1	350
WR2690	WR-42	18-26.5 GHz	0.79	91.44 cm (3')	1.2:1	350
WR4030	WR-28	26.5-40 GHz	1.27	30.5 cm (1')	1.2:1	250
WR4060	WR-28	26.5-40 GHz	1.27	60.96 cm (2')	1.25:1	250
WR4090	WR-28	26.5-40 GHz	1.27	91.44 cm (3')	1.3:1	250
WR7530	WRD-250 D30	2.5-7.5 GHz	0.55	30.5 cm (1')	1.1:1	14,000
WR7545	WRD 250 D30	2.5-7.5 GHz	0.55	45.7 cm (18")	1.3:1	14,000
WR7557	WRD-250 D30	2.5-7.5 GHz	0.55	56.84 cm (1.865')	1.3:1	14,000
WR7560	WRD-250 D30	2.5-7.5 GHz	0.55	60.96 cm (2')	1.3:1	14,000
WR7590	WRD-250 D30	2.5-7.5 GHz	0.55	91.44 cm (3')	1.3:1	14,000
WR75150	WRD-250 D30	2.5-7.5 GHz	0.55	152 cm (5')	1.3:1	14,000
WR75240	WRD-250 D30	2.5-7.5 GHz	0.55	243.84 cm (8')	1.3:1	14,000
WR8030	WRD-180 C24	18-40 GHz	1.5	30.5 cm (1')	1.25:1	450
WR8060	WRD-180 C24	18-40 GHz	1.5	60.96 cm (2')	1.25:1	450
WR8090	WRD-180 C24	18-40 GHz	1.5	91.44 cm (3')	1.25:1	450

## WS Series Seamless Flexible Waveguide

Model No.	Type	Frequency	Attenuation	Length cm (ft)	VSWR	Power (watts)
WS5030	WR-22	33-50 GHz	0.5 dB/ft	30.5 cm (1')	1.3:1	300
WS7530	WRD250 D30	2.5-7.5 GHz	0.23 dB/ft	30.5 cm (1')	1.3:1	2000
WS7560	WRD250 D30	2.5-7.5 GHz	0.23 dB/ft	60.96 cm (2')	1.3:1	2000

## WT Series (90°) Rigid Twist Waveguide

Model No.	Type	Frequency	Attenuation	Length cm (ft)	VSWR	Power (watts)
WT250M1	WRD-250 D30	2.5-7.5 GHz	.0089 dB/ft	30.5 cm (12")	1.08:1	14,000
WT750	WRD-750 D24	7.5-18 GHz	0.17 dB/ft	12.7 cm (5")	1.12:1	2900
WT750M1	WRD-750 D24	7.5-18 GHz	0.17 dB/ft	20.3 cm (8")	1.12:1	2900