

# Formed Bends

MDL's line of waveguide formed bends, twists, and offsets cover band sizes WR15 through WR284 with radius from .25 inches to 18.0 inches in .12 inch increments.

Single and multiple E and H bends, twists and offsets may be ordered in the following waveguide material: OFHC, Copper, Brass, Aluminum, and Coin Silver. More difficult forms, which do not lend themselves readily to the bending process, can be electroformed or developed into a precision cast unit.

W/G Size Freq GHz	W/G Size O.D. Inches	E Bend Throat Radius (R)	H Bend Throat Radius (R)
<b>WR28</b> 26.5 to 40.0 GHz	0.360 x 0.220	.31	.43
		.50	.75
		.56	-
<b>WR42</b> 18.0 to 26.5 GHz	0.500 x 0.250	.75	.75
<b>WR51</b> 15.0 to 22.0 GHz	0.590 x 0.335	-	.25
		.57	.37
		1.37	1.00
<b>WR62</b> 12.4 to 18.0 GHz	0.702 x 0.391	.25	.15
		.30	.25
		.37	.31
		.56	.50
		.68	.62
		.75	.75
		.87	1.00
		1.25	1.09
		1.75	1.25
		2.00	1.50
<b>WR75</b> 10.0 to 15.0 GHz	0.850 x 0.475	.50	-
		1.25	.87
		2.00	1.25
<b>WR90</b> 8.20 to 12.40 GHz	1.000 x 0.500	.25	.25
		.37	.37
		.43	.50
		.50	1.00
		.62	2.00
		.69	2.50
		.75	2.75
		1.00	3.00
		1.25	-
		1.50	-
2.00	-		
2.50	-		
<b>WR90</b> 8.2 to 12.4 GHz	1.000 x .300 O.D.	-	.37
	1.000 x .200 I.D.	-	.50
<b>WR102</b> 7.00 to 11.0 GHz	1.148 x 0.638	.75	2.00
<b>WR112</b> 7.05 to 10.0 GHz	1.250 x 0.625	.37	.43
		.50	.62
		.75	.75
		1.50	1.37
		2.75	2.00
-	2.75	-	
<b>WR137</b> 5.85 to 8.20 GHz	1.500 x 0.750	1.00	1.00
-	-	-	2.00
<b>WR187</b>	2.000 x 1.000	-	.75

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