AT MICROWAVE · WAVEGUIDE COMPONENTS · WR-42 TO WR-0.65

Waveguide Sections up to 1700 GHz

Straight waveguide sections, taper transitions, rectangular and square to circular transitions, twists as well as E- and H-plane bends from AT Microwave. The range comprises 307 models from WR-42 to WR-0.65 and reaches 1700 GHz with the high-precision series.





The range at a glance

Rugged Straight
66 models · 40–1700 GHz
WR-19 to WR-0.65

Standard Straight
21 models · 26.5–400 GHz
WR-28 to WR-2.8

Taper Transition
56 models
WR-42 to WR-2.2

Rectangular / Square to Circular
52 models
WR-42 to WR-3.4

Waveguide Twists
47 models · 40–500 GHz
WR-19 to WR-2.2

E-Plane Bend
31 models · 40–1700 GHz
WR-19 to WR-0.65

H-Plane Bend
34 models · 40–1100 GHz
WR-19 to WR-1.0

Up to 1700 GHz · WR-0.65
High-precision straight sections and E-plane bends are available up to WR-0.65 (1100–1700 GHz), H-plane bends up to WR-1.0 (750–1100 GHz).

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Waveguide bands at a glance

AVAILABILITY BY PRODUCT GROUP

BAND	GHZ	STRAIGHT	TAPER	CIRCULAR	TWIST	E-BEND	H-BEND
WR-42	–		●	●			
WR-28	26.5–40	●	●	●			
WR-22	33–50	●	●	●			
WR-19	40–60	●	●	●	●	●	●
WR-15	50–75	●	●	●	●	●	●
WR-12	60–90	●	●	●	●	●	●
WR-10	75–110	●	●	●	●	●	●
WR-08	90–140	●	●	●	●	●	●
WR-06	110–170	●	●	●	●	●	●
WR-05	140–220	●	●	●	●	●	●
WR-04	170–260	●	●	●	●	●	●
WR-03	220–325 / 330	●	●	●	●	●	●
WR-2.8	260–400	●	●		●	●	●
WR-2.2	330–500	●	●		●	●	●
WR-1.9	**400–600**	●				●	●
WR-1.5	**500–750**	●				●	●
WR-1.2	**600–900**	●				●	●
WR-1.0	**750–1100**	●				●	●
WR-0.65	**1100–1700**	●				●	

Custom lengths and custom solutions

All straight sections are also available in custom lengths, taper transitions also as custom solutions. Talk to us.

Your partner in Europe

bq-microwave is the official distributor of AT Microwave within Europe. Consulting, quotation and order processing from one source.

Your contact for AT Microwave

Looking for a specific waveguide section, a custom length or a transition not listed here? We are happy to advise you and clarify details directly with AT Microwave.

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Rugged Straight

STRAIGHT WAVEGUIDE SECTIONS, RUGGED AND HIGH PRECISION



Straight waveguide sections in rugged design from WR-19 to WR-2.8 and as a high-precision series from WR-15 to WR-0.65, i.e. up to 1700 GHz. Standard lengths from 0.5 inch to 500 mm, custom lengths on request.

RUGGED STRAIGHT · 33 MODELS · 40–400 GHZ

Model	GHz	Length	Waveguide
AT-RSW-2.0-WR19	40–60	2.0 inch	WR-28
AT-RSW-60mm-WR19	40–60	60 mm	WR-19/28
AT-RSW-0.5-WR15	50–75	0.5 inch	WR-15
AT-RSW-1.0-WR15	50–75	1.0 inch	WR-15
AT-RSW-30mm-WR15	50–75	30 mm	WR-15
AT-RSW-2.0-WR15	50–75	2.0 inch	WR-15
AT-RSW-60mm-WR15	50–75	60 mm	WR-15
AT-RSW-0.5-WR12	60–90	0.5 inch	WR-12
AT-RSW-1.0-WR12	60–90	1.0 inch	WR-12
AT-RSW-30mm-WR12	60–90	30 mm	WR-12
AT-RSW-2.0-WR12	60–90	2.0 inch	WR-12
AT-RSW-60mm-WR12	60–90	60 mm	WR-12
AT-RSW-0.5-WR10	75–110	0.5 inch	WR-10
AT-RSW-1.0-WR10	75–110	1.0 inch	WR-10
AT-RSW-30mm-WR10	75–110	30 mm	WR-10
AT-RSW-2.0-WR10	75–110	2.0 inch	WR-10
AT-RSW-60mm-WR10	75–110	60 mm	WR-10

Model	GHz	Length	Waveguide
AT-RSW-0.5-WR08	90–140	0.5 inch	WR-08
AT-RSW-1.0-WR08	90–140	1.0 inch	WR-08
AT-RSW-2.0-WR08	90–140	2.0 inch	WR-08
AT-RSW-0.5-WR06	110–170	0.5 inch	WR-06
AT-RSW-1.0-WR06	110–170	1.0 inch	WR-06
AT-RSW-2.0-WR06	110–170	2.0 inch	WR-06
AT-RSW-0.5-WR05	140–220	0.5 inch	WR-05
AT-RSW-1.0-WR05	140–220	1.0 inch	WR-05
AT-RSW-1.25-WR05	140–220	1.25 inch	WR-05
AT-RSW-0.5-WR04	170–260	0.5 inch	WR-04
AT-RSW-1.0-WR04	170–260	1.0 inch	WR-04
AT-RSW-1.25-WR04	170–260	1.25 inch	WR-04
AT-RSW-0.5-WR03	220–325	0.5 inch	WR-03
AT-RSW-1.0-WR03	220–325	1.0 inch	WR-03
AT-RSW-1.25-WR03	220–325	1.25 inch	WR-03
AT-RSW-1.0-WR2.8	260–400	1.0 inch	WR-2.8

HIGH PRECISION STRAIGHT · 33 MODELS · 50–1700 GHZ

Model	GHz	Length	Waveguide
AT-HPRSW-2.0-WR15	50–75	2.0 inch	WR-15
AT-HPRSW-60mm-WR15*	50–75	60 mm	WR-15
AT-HPRSW-2.0-WR12	60–90	2.0 inch	WR-12
AT-HPRSW-60mm-WR12*	60–90	60 mm	WR-12
AT-HPRSW-250mm-WR12*	60–90	250 mm	WR-12
AT-HPRSW-0.5M-WR12	60–90	500 mm	WR-12
AT-HPRSW-2.0-WR10	75–110	2.0 inch	WR-10
AT-HPRSW-60mm-WR10*	75–110	60 mm	WR-10
AT-HPRSW-250mm-WR10*	75–110	250 mm	WR-10
AT-HPRSW-0.5M-WR10	75–110	500 mm	WR-10
AT-HPRSW-2.0-WR08	90–140	2.0 inch	WR-08
AT-HPRSW-2.0-WR06	110–170	2.0 inch	WR-06
AT-HPRSW-100mm-WR06*	110–170	100 mm	WR-06
AT-HPRSW-250mm-WR06*	110–170	250 mm	WR-06
AT-HPRSW-0.5M-WR06	110–170	500 mm	WR-06
AT-HPRSW-2.0-WR05	140–220	2.0 inch	WR-05
AT-HPRSW-2.0-WR4.3	170–260	2.0 inch	WR-04

Model	GHz	Length	Waveguide
AT-HPRSW-2.0-WR3.4	220–330	2.0 inch	WR-03
AT-HPRSW-2.0-WR2.8	260–400	2.0 inch	WR-2.8
AT-HPRSW-1.0-WR2.2	330–500	1.0 inch	WR-2.2
AT-RSW-1.0-WR2.2	330–500	1.0 inch	WR-2.2
AT-HPRSW-1.25-WR2.2	330–500	1.25 inch	WR-2.2
AT-HPRSW-2.0-WR2.2	330–500	2.0 inch	WR-2.2
AT-HPRSW-1.0-WR1.9	400–600	1.0 inch	WR-1.9
AT-HPRSW-2.0-WR1.9	400–600	2.0 inch	WR-1.9
AT-HPRSW-1.0-WR1.5	500–750	1.0 inch	WR-1.5
AT-HPRSW-2.0-WR1.5	500–750	2.0 inch	WR-1.5
AT-HPRSW-1.0-WR1.2	600–900	1.0 inch	WR-1.2
AT-HPRSW-2.0-WR1.2	600–900	2.0 inch	WR-1.2
AT-HPRSW-1.0-WR1.0	750–1100	1.0 inch	WR-1.0
AT-HPRSW-2.0-WR1.0	750–1100	2.0 inch	WR-1.0
AT-HPRSW-1.0-WR0.65	1100–1700	1.0 inch	WR-0.65
AT-HPRSW-2.0-WR0.65	1100–1700	2.0 inch	WR-0.65

Standard Straight

STANDARD STRAIGHT WAVEGUIDE SECTIONS



Standard straight waveguide sections from WR-28 to WR-2.8 (26.5–400 GHz) in 1.0, 1.25 and 2.0 inch length. Custom lengths on request.

STANDARD STRAIGHT · 21 MODELS · 26.5–400 GHZ

Model	GHz	Length	Waveguide
AT-SSW-2.0-WR28	26.5–40	2.0 inch	WR-28
AT-SSW-2.0-WR22	33–50	2.0 inch	WR-22
AT-SSW-2.0-WR19	40–60	2.0 inch	WR-19
AT-SSW-1.0-WR15	50–75	1.0 inch	WR-15
AT-SSW-2.0-WR15	50–75	2.0 inch	WR-15
AT-SSW-1.0-WR12	60–90	1.0 inch	WR-12
AT-SSW-2.0-WR12	60–90	2.0 inch	WR-12
AT-SSW-1.0-WR10	75–110	1.0 inch	WR-10
AT-SSW-2.0-WR10	75–110	2.0 inch	WR-10
AT-SSW-1.0-WR08	90–140	1.0 inch	WR-08
AT-SSW-2.0-WR08	90–140	2.0 inch	WR-08

Model	GHz	Length	Waveguide
AT-SSW-1.0-WR06	110–170	1.0 inch	WR-06
AT-SSW-2.0-WR06	110–170	2.0 inch	WR-06
AT-SSW-1.0-WR05	140–220	1.0 inch	WR-05
AT-SSW-2.0-WR05	140–220	2.0 inch	WR-05
AT-SSW-1.0-WR04	170–260	1.0 inch	WR-04
AT-SSW-2.0-WR04	170–260	2.0 inch	WR-04
AT-SSW-1.0-WR03	220–330	1.0 inch	WR-03
AT-SSW-1.25-WR03	220–330	1.25 inch	WR-03
AT-SSW-1.0-WR2.8	260–400	1.0 inch	WR-2.8
AT-SSW-1.25-WR2.8	260–400	1.25 inch	WR-2.8

Taper Transition

TRANSITIONS BETWEEN TWO WAVEGUIDE SIZES



Taper transitions connect two different waveguide sizes, from WR-42 to WR-2.2. In addition there are two flange adapters for WR-28 and WR-22. Custom transitions are available on request.

TAPER · 54 MODELS

Model	Waveguide 1	Waveguide 2	Length
AT-WT-4228-2.0-595	WR-42	WR-28	2.0 inch
AT-WT-9028-5.0	WR-42	WR-28	2.0 inch
AT-WT-4228-2.0-595-599	WR-42	WR-28	2.0 inch
AT-WT-4222-2.0-595-383	WR-42	WR-22	2.0 inch
AT-WT-2822-2.0-599-383	WR-28	WR-22	2.0 inch
AT-WT-2819-2.0-599-383	WR-28	WR-19	2.0 inch
AT-WT-2815-2.0	WR-28	WR-15	2.0 inch
AT-WT-2812-2.0	WR-28	WR-12	2.0 inch

Model	Waveguide 1	Waveguide 2	Length
AT-WT-2810-2.0	WR-28	WR-10	2.0 inch
AT-WT-2219-2.0-383	WR-22	WR-19	2.0 inch
AT-WT-2215-2.0	WR-22	WR-15	2.0 inch
AT-WT-2212-2.0	WR-22	WR-12	2.0 inch
AT-WT-2210-2.0	WR-22	WR-10	2.0 inch
AT-WT-1915-2.0	WR-19	WR-15	2.0 inch
AT-WT-1912-2.0	WR-19	WR-12	2.0 inch
AT-WT-1910-2.0	WR-19	WR-10	2.0 inch

TAPER · CONTINUED

Model	Waveguide 1	Waveguide 2	Length
AT-WT-1512-2.0	WR-15	WR-12	2.0 inch
AT-WT-1510-2.0	WR-15	WR-10	2.0 inch
AT-WT-1508-1.25	WR-15	WR-08	1.25 inch
AT-WT-1506-1.25	WR-15	WR-06	1.25 inch
AT-WT-1505-1.25	WR-15	WR-05	1.25 inch
AT-WT-1504-1.25	WR-15	WR-04	1.25 inch
AT-WT-1503-1.25	WR-15	WR-03	1.25 inch
AT-WT-1210-2.0	WR-12	WR-10	2.0 inch
AT-WT-1208-2.0	WR-12	WR-08	2.0 inch
AT-WT-1206-1.0	WR-12	WR-06	1.0 inch
AT-WT-1205-1.0	WR-12	WR-05	1.0 inch
AT-WT-1204-1.0	WR-12	WR-04	1.0 inch
AT-WT-1203-1.0	WR-12	WR-03	1.0 inch
AT-WT-1008-2.0	WR-10	WR-08	2.0 inch
AT-WT-1008-1.0	WR-10	WR-08	1.0 inch
AT-WT-1008-1.25	WR-10	WR-08	1.25 inch
AT-WT-1006-1.0	WR-10	WR-06	1.0 inch
AT-WT-1005-1.0	WR-10	WR-05	1.0 inch
AT-WT-1004-1.0	WR-10	WR-04	1.0 inch

Model	Waveguide 1	Waveguide 2	Length
AT-WT-1003-1.0	WR-10	WR-03	1.0 inch
AT-WT-102.8-1.0	WR-10	WR-2.8	1.0 inch
AT-WT-102.2-1.0	WR-10	WR-2.2	1.0 inch
AT-WT-0806-1.0	WR-08	WR-06	1.0 inch
AT-WT-0805-1.0	WR-08	WR-05	1.0 inch
AT-WT-0804-1.0	WR-08	WR-04	1.0 inch
AT-WT-0803-1.0	WR-08	WR-03	1.0 inch
AT-WT-0605-1.0	WR-06	WR-05	1.0 inch
AT-WT-0605-2.0	WR-06	WR-05	2.0 inch
AT-WT-0604-1.0	WR-06	WR-04	1.0 inch
AT-WT-0603-1.0	WR-06	WR-03	1.0 inch
AT-WT-0504-1.0	WR-05	WR-04	1.0 inch
AT-WT-0504-2.0	WR-05	WR-04	2.0 inch
AT-WT-0503-1.0	WR-05	WR-03	1.0 inch
AT-WT-0403-1.0	WR-04	WR-03	1.0 inch
AT-WT-042.8-1.0	WR-04	WR-2.8	1.0 inch
AT-WT-042.2-1.0	WR-04	WR-2.2	1.0 inch
AT-WT-032.8-1.0	WR-03	WR-2.8	1.0 inch
AT-WT-032.2-1.0	WR-03	WR-2.2	1.0 inch

AT Microwave does not list frequency ranges for the tapers on its website; they follow from the waveguide pair and the datasheet.

FLANGE ADAPTER · 2 MODELS · 26.5–50 GHZ

Model	GHz	Length	Waveguide
AT-WFA-383599-1.0-WR28	26.5–40	1.0 inch	WR-28
AT-WFA-383599-1.0-WR22	33–50	1.0 inch	WR-22

Rectangular / Square to Circular

TRANSITIONS TO CIRCULAR WAVEGUIDE



Transitions from rectangular waveguide (WR-42 to WR-3.4) or square waveguide to circular waveguide. Cross sections and circular diameters in inch, as specified by AT Microwave.

RECTANGULAR TO CIRCULAR · 28 MODELS

Model	Rectangular	Circular Ø (inch)	Length
AT-WT-03039-1.0	WR-3.4	0.039	1.0 inch
AT-WT-04049-1.0	WR-04	0.049	1.0 inch
AT-WT-05059-1.0	WR-05	0.059	1.0 inch
AT-WT-05067-1.0	WR-05	0.067	1.0 inch
AT-WT-06059-1.0	WR-06	0.059	1.0 inch
AT-WT-06067-1.0	WR-06	0.067	1.0 inch

Model	Rectangular	Circular Ø (inch)	Length
AT-WT-06075-1.0	WR-06	0.075	1.0 inch
AT-WT-06082-1.0	WR-06	0.082	1.0 inch
AT-WT-08075-1.0	WR-08	0.075	1.0 inch
AT-WT-08082-1.0	WR-08	0.082	1.0 inch
AT-WT-08094-1.0	WR-08	0.094	1.0 inch
AT-WT-10082-1.0	WR-10	0.082	1.0 inch

RECTANGULAR TO CIRCULAR · CONTINUED

Model	Rectangular	Circular Ø (inch)	Length
AT-WT-10094-1.0	WR-10	0.094	1.0 inch
AT-WT-10110-1.0	WR-10	0.110	1.0 inch
AT-WT-12110-1.0	WR-12	0.110	1.0 inch
AT-WT-12125-1.0	WR-12	0.125	1.0 inch
AT-WT-12136-1.0	WR-12	0.136	1.0 inch
AT-WT-12141-1.0	WR-12	0.141	1.0 inch
AT-WT-15165-1.0-385-383	WR-15	0.165	1.0 inch
AT-WT-15165-1.0-385	WR-15	0.165	1.0 inch
AT-WT-19219-1.5-383	WR-19	0.219	1.5 inch
AT-WT-22219-1.5-383-599	WR-2	0.219	1.5 inch
AT-WT-22219-1.5-383	WR-2	0.219	1.5 inch
AT-WT-22250-1.5-383-599	WR-22	0.250	1.0 inch
AT-WT-22250-1.5-383	WR-22	0.250	1.0 inch
AT-WT-28219-2.0-599	WR-28	0.219	1.0 inch
AT-WT-28250-1.5-599	WR-28	0.219	1.0 inch
AT-WT-42396-2.0-595	WR-42	0.396	1.0 inch

SQUARE TO CIRCULAR · 24 MODELS

Model	Square (inch)	Circular Ø (inch)	Length
AT-SCWT-034039-0.7	0.034	0.039	0.7 inch
AT-SCWT-043049-0.7	0.043	0.049	0.7 inch
AT-SCWT-051059-0.7	0.051	0.059	0.7 inch
AT-SCWT-051067-0.7	0.051	0.067	0.7 inch
AT-SCWT-065059-0.7	0.065	0.059	0.7 inch
AT-SCWT-065075-0.7	0.065	0.075	0.7 inch
AT-SCWT-065082-0.7	0.065	0.082	0.7 inch
AT-SCWT-080075-0.7	0.080	0.075	0.7 inch
AT-SCWT-080082-0.7	0.080	0.082	0.7 inch
AT-SCWT-100082-0.7	0.100	0.082	0.7 inch
AT-SCWT-100094-0.7	0.100	0.094	0.7 inch
AT-SCWT-100110-0.7	0.100	0.110	0.7 inch
AT-SCWT-122110-0.7	0.122	0.110	0.7 inch
AT-SCWT-122125-0.7	0.122	0.125	0.7 inch
AT-SCWT-122141-0.7	0.122	0.141	0.7 inch
AT-SCWT-148125-0.7	0.148	0.125	0.7 inch
AT-SCWT-148141-0.7	0.148	0.141	0.7 inch
AT-SCWT-148165-0.7	0.148	0.165	0.7 inch
AT-SCWT-188188-0.7	0.188	0.188	0.7 inch
AT-SCWT-188165-0.7	0.188	0.165	0.7 inch
AT-SCWT-188219-0.7	0.188	0.219	0.7 inch
AT-SCWT-224250-0.7	0.224	0.250	0.7 inch
AT-SCWT-224219-0.7	0.224	0.219	0.7 inch
AT-SCWT-224188-0.7	0.224	0.188	0.7 inch

Waveguide Twists

90° AND 45°



Twists rotate the waveguide plane by 90° or 45°. Twist 90 is available from WR-19 to WR-2.2 (40–500 GHz), also as rugged twist, twist 45 from WR-19 to WR-2.8 (40–400 GHz).

WAVEGUIDE TWIST 90 · 21 MODELS · 40–500 GHZ

Model	GHz	Length	Waveguide
AT-TW90-19-1.0	40–60	1.0 inch	WR-19
AT-TW90-19-1.5	40–60	1.5 inch	WR-19
AT-TW90-19-2.0	40–60	2.0 inch	WR-19
AT-TW90-15-1.0	50–75	1.0 inch	WR-15
AT-TW90-15-2.0	50–75	2.0 inch	WR-15
AT-TW90-12-1.0	60–90	1.0 inch	WR-12
AT-TW90-12-2.0	60–90	2.0 inch	WR-12
AT-TW90-10-1.0	75–110	1.0 inch	WR-10
AT-TW90-10-2.0	75–110	2.0 inch	WR-10
AT-TW90-08-1.0	90–140	1.0 inch	WR-08
AT-TW90-08-2.0	90–140	2.0 inch	WR-08

Model	GHz	Length	Waveguide
AT-TW90-06-1.0	110–170	1.0 inch	WR-06
AT-TW90-06-2.0	110–170	2.0 inch	WR-06
AT-TW90-05-1.0	140–220	1.0 inch	WR-05
AT-TW90-05-2.0	140–220	2.0 inch	WR-05
AT-TW90-04-1.0	170–260	1.0 inch	WR-04
AT-TW90-03-1.0	220–330	1.0 inch	WR-03
AT-TW90-03-1.25	220–330	1.25 inch	WR-03
AT-TW90-2.8-1.0	260–400	1.0 inch	WR-2.8
AT-TW90-2.8-1.25	260–400	1.25 inch	WR-2.8
AT-TW90-2.2-1.0	330–500	1.0 inch	WR-2.2

RUGGED TWIST 90 · 10 MODELS · 50–500 GHZ

Model	GHz	Length	Waveguide
AT-HPTW90-15B-1.0	50–75	1.0 inch	WR-15
AT-HPTW90-12B-1.0	60–90	1.0 inch	WR-12
AT-HPTW90-10B-1.0	75–110	1.0 inch	WR-10
AT-HPTW90-08B-1.0	90–140	1.0 inch	WR-08
AT-HPTW90-06B-1.0	110–170	1.0 inch	WR-06

Model	GHz	Length	Waveguide
AT-HPTW90-05B-1.0	140–220	1.0 inch	WR-05
AT-HPTW90-04B-1.0	170–260	1.0 inch	WR-04
AT-HPTW90-03B-1.0	220–330	1.0 inch	WR-03
AT-HPTW90-2.8B-1.0	260–400	1.0 inch	WR-03
AT-HPTW90-2.2B-1.0	330–500	1.0 inch	WR-2.2

WAVEGUIDE TWIST 45 · 16 MODELS · 40–400 GHZ

Model	GHz	Length	Waveguide
AT-TW45-19-1.0	40–60	1.0 inch	WR-19
AT-TW45-19-1.5	40–60	1.5 inch	WR-19
AT-TW45-19-2.0	40–60	2.0 inch	WR-19
AT-TW45-15-1.0	50–75	1.0 inch	WR-15
AT-TW45-15-2.0	50–75	2.0 inch	WR-15
AT-TW45-12-1.0	60–90	1.0 inch	WR-12
AT-TW45-12-2.0	60–90	2.0 inch	WR-12
AT-TW45-10-1.0	75–110	1.0 inch	WR-10

Model	GHz	Length	Waveguide
AT-TW45-10-2.0	75–110	2.0 inch	WR-10
AT-TW45-08-1.0	90–140	1.0 inch	WR-08
AT-TW45-06-1.0	110–170	1.0 inch	WR-06
AT-TW45-05-1.0	140–220	1.0 inch	WR-05
AT-TW45-04-1.0	170–260	1.0 inch	WR-04
AT-TW45-03-1.0	220–330	1.0 inch	WR-03
AT-TW45-2.8-1.0	260–400	1.0 inch	WR-2.8
AT-TW45-2.8-1.25	260–400	1.25 inch	WR-2.8

E-Plane Bend

90° BENDS IN THE E-PLANE



90° bends in the E-plane, as a standard series from WR-19 to WR-03 and as a high-precision series from WR-10 to WR-0.65, i.e. up to 1700 GHz.

E-PLANE BEND · 18 MODELS · 40–325 GHZ

Model	GHz	Length	Waveguide
AT-EB90-19-0.75	40–60	0.75 inch	WR-19
AT-EB90-19-1.0	40–60	1.0 inch	WR-19
AT-EB90-15-0.75	50–75	0.75 inch	WR-15
AT-EB90-15-1.0	50–75	1.0 inch	WR-15
AT-EB90-12-0.75	60–90	0.75 inch	WR-12
AT-EB90-12-1.0	60–90	1.0 inch	WR-12
AT-EB90-10-0.75	75–110	0.75 inch	WR-10
AT-EB90-10-1.0	75–110	1.0 inch	WR-10
AT-EB90-08-0.75	90–140	0.75 inch	WR-08
AT-EB90-08-1.0	90–140	1.0 inch	WR-08
AT-EB90-06-0.75	110–170	0.75 inch	WR-06
AT-EB90-06-1.0	110–170	1.0 inch	WR-06
AT-EB90-05-0.75	140–220	0.75 inch	WR-05
AT-EB90-05-1.0	140–220	1.0 inch	WR-05
AT-EB90-04-0.75	170–260	0.75 inch	WR-04
AT-EB90-04-1.0	170–260	1.0 inch	WR-04
AT-EB90-03-0.75	220–325	0.75 inch	WR-03
AT-EB90-03-1.0	220–325	1.0 inch	WR-03

HIGH PRECISION E-PLANE BEND · 13 MODELS · 75–1700 GHZ

Model	GHz	Length	Waveguide
AT-HPEB90-10-0.75	75–110	0.75 inch	WR-10
AT-HPEB90-08-0.75	90–140	0.75 inch	WR-08
AT-HPEB90-06-0.75	110–170	0.75 inch	WR-06
AT-HPEB90-05-0.75	140–220	0.75 inch	WR-05
AT-HPEB90-04-0.75	170–260	0.75 inch	WR-04
AT-HPEB90-03-0.75	220–325	0.75 inch	WR-03
AT-HPEB90-2.8-0.75	260–400	0.75 inch	WR-2.8
AT-HPEB90-2.2-0.75	330–500	0.75 inch	WR-2.2
AT-HPEB90-WR1.9-0.75	400–600	0.75 inch	WR-1.9
AT-HPEB90-WR1.5-0.75	500–750	0.75 inch	WR-1.5
AT-HPEB90-WR1.2-0.75	600–900	0.75 inch	WR-1.2
AT-HPEB90-WR1.0-0.75	750–1100	0.75 inch	WR-1.0
AT-HPEB90-WR0.65-0.75	1100–1700	0.75 inch	WR-0.65

H-Plane Bend

90° BENDS IN THE H-PLANE



90° bends in the H-plane, as a standard series from WR-19 to WR-03 and in compact size from WR-15 to WR-1.0, i.e. up to 1100 GHz.

H-PLANE BEND · 18 MODELS · 40–330 GHZ

Model	GHz	Length	Waveguide
AT-HB90-19-0.75	40–60	0.75 inch	WR-19
AT-HB90-19-1.0	40–60	1.0 inch	WR-19
AT-HB90-15-0.75	50–75	0.75 inch	WR-15
AT-HB90-15-1.0	50–75	1.0 inch	WR-15
AT-HB90-12-0.75	60–90	0.75 inch	WR-12
AT-HB90-12-1.0	60–90	1.0 inch	WR-12
AT-HB90-10-0.75	75–110	0.75 inch	WR-10
AT-HB90-10-1.0	75–110	1.0 inch	WR-10
AT-HB90-08-0.75	90–140	0.75 inch	WR-08
AT-HB90-08-1.0	90–140	1.0 inch	WR-08
AT-HB90-06-0.75	110–170	0.75 inch	WR-06
AT-HB90-06-1.0	110–170	1.0 inch	WR-06
AT-HB90-05-0.75	140–220	0.75 inch	WR-05
AT-HB90-05-1.0	140–220	1.0 inch	WR-05
AT-HB90-04-0.75	170–260	0.75 inch	WR-04
AT-HB90-04-1.0	170–260	1.0 inch	WR-04
AT-HB90-03-0.75	220–330	0.75 inch	WR-03
AT-HB90-03-1.0	220–330	1.0 inch	WR-03

COMPACT-SIZE H-PLANE BEND · 16 MODELS · 50–1100 GHZ

Model	GHz	Length	Waveguide
AT-CHB90-15B	50–75	–	WR-15
AT-CHB90-12B	60–90	–	WR-12
AT-CHB90-10B	75–110	–	WR-10
AT-CHB90-08B	90–140	–	WR-08
AT-CHB90-06B	110–170	–	WR-06
AT-CHB90-05B	140–220	–	WR-05
AT-CHB90-04B	170–260	–	WR-04
AT-CHB90-03B	220–330	–	WR-03
AT-CHB90-2.8B	260–400	–	WR-2.8
AT-HPHB90-2.8-0.75	260–400	–	WR-2.8
AT-CHB90-2.2B	330–500	–	WR-2.8
AT-HPHB90-2.2-0.75	330–500	–	WR-2.2
AT-HPHB90-WR1.9-0.75	400–600	–	WR-1.9
AT-HPHB90-WR1.5-0.75	500–750	–	WR-1.5
AT-HPHB90-WR1.2-0.75	600–900	–	WR-1.2
AT-HPHB90-WR1.0-0.75	750–1100	–	WR-1.0

All data according to the AT Microwave website (November 2026); the respective datasheet is binding. * Part number shown abbreviated on the website.