

# WAVEGUIDE BEND

## Waveguide ARC Bend



### ELECTRICAL CHARACTERISTICS:

Part No.	WG Type (EIA)	Freq Range (GHz)	VSWR	Standard Dimensions (AxB)mm	Min Dimensions (AxB)mm	Flange	Material
SH-22WEBAXBPM	WR430	1.72-2.61	≤ 1.10	150X150	145X145	FDP/FDM	Al
SH-22WHBAXBPM	WR430	1.72-2.61	≤ 1.10	150X150	150X150	FDP/FDM	Al
SH-26WEBAXBPM	WR340	2.17-3.30	≤ 1.10	100X100	80X80	FDP/FDM	Al
SH-26WHBAXBPM	WR340	2.17-3.30	≤ 1.10	180X180	150X150	FDP/FDM	Al
SH-32WEBAXBPM	WR284	2.60-3.95	≤ 1.10	100X100	100X100	FDP/FDM	Al
SH-32WHBAXBPM	WR284	2.60-3.95	≤ 1.10	150X150	150X150	FDP/FDM	Al
SH-40WEBAXBPM	WR229	3.22-4.90	≤ 1.10	80X80	80X80	FDP/FDM	Al
SH-40WHBAXBPM	WR229	3.22-4.90	≤ 1.10	100X100	100X100	FDP/FDM	Al
SH-48WEBAXBPM	WR187	3.94-5.99	≤ 1.10	80X80	70X70	FDP/FDM	Al
SH-48WHBAXBPM	WR187	3.94-5.99	≤ 1.10	80X80	75X75	FDP/FDM	Al
SH-58WEBAXBPM	WR159	4.64-7.05	≤ 1.10	80X80	65X65	FDP/FDM	Al
SH-58WHBAXBPM	WR159	4.64-7.05	≤ 1.10	80X80	80X80	FDP/FDM	Al
SH-70WEBAXBPM	WR137	5.38-8.17	≤ 1.10	50X50	50X50	FDP/FDM	Cu
SH-70WHBAXBPM	WR137	5.38-8.17	≤ 1.10	70X70	60X60	FDP/FDM	Cu
SH-84WEBAXBPM	WR112	6.57-9.99	≤ 1.10	50X50	45X45	FBP/FBM	Cu
SH-84WHBAXBPM	WR112	6.57-9.99	≤ 1.10	70X70	50X50	FBP/FBM	Cu
SH-100WEBAXBPM	WR90	8.20-12.40	≤ 1.10	40X40	35X35	FBP/FBM	Cu
SH-100WHBAXBPM	WR90	8.20-12.40	≤ 1.10	50X50	40X40	FBP/FBM	Cu
SH-120WEBAXBPM	WR75	9.84-15.0	≤ 1.10	40X40	35X35	FBP/FBM	Cu
SH-120WHBAXBPM	WR75	9.84-15.0	≤ 1.10	40X40	40X40	FBP/FBM	Cu
SH-140WEBAXBPM	WR62	11.9-18.0	≤ 1.10	40X40	30X30	FBP/FBM	Cu
SH-140WHBAXBPM	WR62	11.9-18.0	≤ 1.10	40X40	35X35	FBP/FBM	Cu
SH-180WEBAXBPM	WR51	14.5-22.0	≤ 1.10	30X30	30X30	FBP/FBM	Cu
SH-180WHBAXBPM	WR51	14.5-22.0	≤ 1.10	30X30	35X35	FBP/FBM	Cu
SH-220WEBAXBPM	WR42	17.6-26.7	≤ 1.10	30X30	25X25	FBP/FBM	Cu
SH-220WHBAXBPM	WR42	17.6-26.7	≤ 1.10	30X30	30X30	FBP/FBM	Cu
SH-260WEBAXBPM	WR34	21.7-33.0	≤ 1.15	30X30	20X20	FBP/FBM	Cu
SH-260WHBAXBPM	WR34	21.7-33.0	≤ 1.15	30X30	25X25	FBP/FBM	Cu
SH-320WEBAXBPM	WR28	26.5-40.0	≤ 1.15	30X30	20X20	FBP/FBM	Cu
SH-320WHBAXBPM	WR28	26.5-40.0	≤ 1.15	30X30	20X20	FBP/FBM	Cu
SH-400WEBAXBPM	WR22	32.9-50.1	≤ 1.15	30X30	20X20	FUGP	Cu
SH-400WHBAXBPM	WR22	32.9-50.1	≤ 1.15	30X30	25X25	FUGP	Cu
SH-500WEBAXBPM	WR19	39.2-59.6	≤ 1.15	30X30	20X20	FUGP	Cu
SH-500WHBAXBPM	WR19	39.2-59.6	≤ 1.15	30X30	20X20	FUGP	Cu
SH-620WEBAXBPM	WR15	49.8-75.8	≤ 1.15	30X30	20X20	FUGP	Cu
SH-620WHBAXBPM	WR15	49.8-75.8	≤ 1.15	30X30	20X20	FUGP	Cu
SH-740WEBAXBPM	WR12	60.5-91.9	≤ 1.15	30X30	20X20	FUGP	Cu
SH-740WHBAXBPM	WR12	60.5-91.9	≤ 1.15	30X30	20X20	FUGP	Cu
SH-900WEBAXBPM	WR10	73.8-112	≤ 1.15	30X30	20X20	FUGP	Cu
SH-900WHBAXBPM	WR10	73.8-112	≤ 1.15	30X30	20X20	FUGP	Cu
SH-1200WEBAXBPM	WR8	92.2-140	-	20X20	-	FUGP	Cu
SH-1200WHBAXBPM	WR8	92.2-140	-	20X20	-	FUGP	Cu
SH-1400WEBAXBPM	WR7	113-173	-	20X20	-	FUGP	Cu
SH-1400WHBAXBPM	WR7	113-173	-	20X20	-	FUGP	Cu
SH-1800WEBAXBPM	WR5	145-220	-	20X20	-	FUGP	Cu
SH-1800WHBAXBPM	WR5	145-220	-	20X20	-	FUGP	Cu
SH-2200WEBAXBPM	WR4	172-261	-	20X20	-	FUGP	Cu
SH-2200WHBAXBPM	WR4	172-261	-	20X20	-	FUGP	Cu
SH-2600WEBAXBPM	WR3	217-330	-	20X20	-	FUGP	Cu
SH-2600WHBAXBPM	WR3	217-330	-	20X20	-	FUGP	Cu

# WAVEGUIDE BEND

## Waveguide Miter Bend



### ELECTRICAL CHARACTERISTICS:

Part No.	WG Type (EIA)	Freq Range (GHz)	Working Bandwidth	VSWR	Min Dimensions (AxB)mm	Flange	Material
SH-3WTEBAXBPM	WR2300	0.32-0.49	Full band	≤ 15%	220 X220	FDP/FDM	Al
SH-3WTHBAXBPM	WR2300	0.32-0.49	≤ 15%	≤ 15%	350 X350	FDP/FDM	Al
SH-4WTEBAXBPM	WR2100	0.35-0.53	Full band	≤ 15%	200 X200	FDP/FDM	Al
SH-4WTHBAXBPM	WR2100	0.35-0.53	≤ 15%	≤ 15%	330 X330	FDP/FDM	Al
SH-5WTEBAXBPM	WR1800	0.41-0.62	Full band	≤ 15%	180 X180	FDP/FDM	Al
SH-5WTHBAXBPM	WR1800	0.41-0.62	≤ 15%	≤ 15%	300 X300	FDP/FDM	Al
SH-6WTEBAXBPM	WR1500	0.49-0.75	Full band	≤ 15%	150 X150	FDP/FDM	Al
SH-6WTHBAXBPM	WR1500	0.49-0.75	≤ 15%	≤ 15%	240 X240	FDP/FDM	Al
SH-8WTEBAXBPM	WR1150	0.64-0.98	Full band	≤ 15%	130 X130	FDP/FDM	Al
SH-8WTHBAXBPM	WR1150	0.64-0.98	≤ 15%	≤ 15%	220 X220	FDP/FDM	Al
SH-9WTEBAXBPM	WR975	0.75-1.15	Full band	≤ 15%	120 X120	FDP/FDM	Al
SH-9WTHBAXBPM	WR975	0.75-1.15	≤ 15%	≤ 15%	200 X200	FDP/FDM	Al
SH-12WTEBAXBPM	WR770	0.96-1.46	Full band	≤ 15%	110 X110	FDP/FDM	Al
SH-12WTHBAXBPM	WR770	0.96-1.46	≤ 15%	≤ 15%	160 X160	FDP/FDM	Al
SH-14WTEBAXBPM	WR650	1.13-1.73	Full band	≤ 15%	100 X100	FDP/FDM	Al
SH-14WTHBAXBPM	WR650	1.13-1.73	≤ 15%	≤ 15%	140 X140	FDP/FDM	Al
SH-18WTEBAXBPM	WR510	1.45-2.20	Full band	≤ 15%	90 X90	FDP/FDM	Al
SH-18WTHBAXBPM	WR510	1.45-2.20	≤ 15%	≤ 15%	120 X120	FDP/FDM	Al
SH-22WTEBAXBPM	WR430	1.72-2.61	Full band	≤ 15%	70 X70	FDP/FDM	Al
SH-22WTHBAXBPM	WR430	1.72-2.61	≤ 15%	≤ 15%	100 X100	FDP/FDM	Al
SH-26WTEBAXBPM	WR340	2.17-3.30	Full band	≤ 15%	70 X70	FDP/FDM	Al
SH-26WTHBAXBPM	WR340	2.17-3.30	≤ 15%	≤ 15%	100 X100	FDP/FDM	Al
SH-32WTEBAXBPM	WR284	2.60-3.95	Full band	≤ 15%	60 X60	FDP/FDM	Al
SH-32WTHBAXBPM	WR284	2.60-3.95	≤ 15%	≤ 15%	65 X65	FDP/FDM	Al
SH-40WTEBAXBPM	WR229	3.22-4.90	Full band	≤ 15%	45 X45	FDP/FDM	Al
SH-40WTHBAXBPM	WR229	3.22-4.90	≤ 15%	≤ 15%	60 X60	FDP/FDM	Al
SH-48WTEBAXBPM	WR187	3.94-5.99	Full band	≤ 15%	45 X45	FDP/FDM	Al
SH-48WTHBAXBPM	WR187	3.94-5.99	≤ 15%	≤ 15%	60 X60	FDP/FDM	Al
SH-58WTEBAXBPM	WR159	4.64-7.05	Full band	≤ 15%	40 X40	FDP/FDM	Al
SH-58WTHBAXBPM	WR159	4.64-7.05	≤ 15%	≤ 15%	50 X50	FDP/FDM	Al
SH-70WTEBAXBPM	WR137	5.38-8.17	Full band	≤ 15%	35 X35	FDP/FDM	Cu
SH-70WTHBAXBPM	WR137	5.38-8.17	≤ 15%	≤ 15%	45 X45	FDP/FDM	Cu
SH-84WTEBAXBPM	WR112	6.57-9.99	Full band	≤ 15%	30 X30	FBP/FBM	Cu
SH-84WTHBAXBPM	WR112	6.57-9.99	≤ 15%	≤ 15%	40 X40	FBP/FBM	Cu
SH-100WTEBAXBPM	WR90	8.20-12.40	Full band	≤ 15%	25 X25	FBP/FBM	Cu
SH-100WTHBAXBPM	WR90	8.20-12.40	≤ 15%	≤ 15%	30 X30	FBP/FBM	Cu
SH-120WTEBAXBPM	WR75	9.84-15.0	Full band	≤ 15%	25 X25	FBP/FBM	Cu
SH-120WTHBAXBPM	WR75	9.84-15.0	≤ 15%	≤ 15%	30 X30	FBP/FBM	Cu
SH-140WTEBAXBPM	WR62	11.9-18.0	Full band	≤ 15%	20 X20	FBP/FBM	Cu
SH-140WTHBAXBPM	WR62	11.9-18.0	≤ 15%	≤ 15%	25 X25	FBP/FBM	Cu
SH-180WTEBAXBPM	WR51	14.5-22.0	Full band	≤ 15%	20 X20	FBP/FBM	Cu
SH-180WTHBAXBPM	WR51	14.5-22.0	≤ 15%	≤ 15%	25 X25	FBP/FBM	Cu
SH-220WTEBAXBPM	WR42	17.6-26.7	Full band	≤ 15%	15 X15	FBP/FBM	Cu
SH-220WTHBAXBPM	WR42	17.6-26.7	≤ 10%	≤ 15%	20 X20	FBP/FBM	Cu
SH-260WTEBAXBPM	WR34	21.7-33.0	Full band	≤ 15%	15 X15	FBP/FBM	Cu
SH-260WTHBAXBPM	WR34	21.7-33.0	≤ 10%	≤ 15%	20 X20	FDP/FDM	Cu
SH-320WTEBAXBPM	WR28	26.5-40.0	Full band	≤ 15%	12 X12	FDP/FDM	Cu
SH-320WTHBAXBPM	WR28	26.5-40.0	≤ 10%	≤ 15%	18 X18	FDP/FDM	Cu

# WAVEGUIDE BEND

## Dual Ridge Waveguide Bend



### ELECTRICAL CHARACTERISTICS:

Part No.	WG Type (EIA)	Freq Range (GHz)	VSWR	Min Dimensions (AxB)mm	Flange	Material
SH-84DRWEBAXBPM	WRD84	0.84-2	≤ 1.25	150X150	FP/FM	Al
SH-84DRWHBAXBPM	WRD84	0.84-2	≤ 1.25	200X200	FP/FM	Al
SH-150DRWEBAXBPM	WRD150	1.5-3.6	≤ 1.25	100X100	FP/FM	Al
SH-150DRWHBAXBPM	WRD150	1.5-3.6	≤ 1.25	150X150	FP/FM	Al
SH-200DRWEBAXBPM	WRD200	2-4.8	≤ 1.25	100X100	FP/FM	Al
SH-200DRWHBAXBPM	WRD200	2-4.8	≤ 1.25	150X150	FP/FM	Al
SH-250DRWEBAXBPM	WRD250	2.6-7.8	≤ 1.25	100X100	FP/FM	Al
SH-250DRWHBAXBPM	WRD250	2.6-7.8	≤ 1.25	150X150	FP/FM	Al
SH-350DRWEBAXBPM	WRD350	3.5-8.2	≤ 1.25	100X100	FP/FM	Al
SH-350DRWHBAXBPM	WRD350	3.5-8.2	≤ 1.25	100X100	FP/FM	Al
SH-475DRWEBAXBPM	WRD475	4.75-11	≤ 1.25	100X100	FP/FM	Cu
SH-475DRWHBAXBPM	WRD475	4.75-11	≤ 1.25	100X100	FP/FM	Cu
SH-500DRWEBAXBPM	WRD500	5-18	≤ 1.25	80X80	FP/FM	Cu
SH-500DRWHBAXBPM	WRD500	5-18	≤ 1.25	80X80	FP/FM	Cu
SH-580DRWEBAXBPM	WRD580	5.8-16	≤ 1.25	80X80	FP/FM	Cu
SH-580DRWHBAXBPM	WRD580	5.8-16	≤ 1.25	80X80	FP/FM	Cu
SH-650DRWEBAXBPM	WRD650	6.5-18	≤ 1.25	50X50	FP/FM	Cu
SH-650DRWHBAXBPM	WRD650	6.5-18	≤ 1.25	50X50	FP/FM	Cu
SH-750DRWEBAXBPM	WRD750	7.5-18	≤ 1.25	50X50	FP/FM	Cu
SH-750DRWHBAXBPM	WRD750	7.5-18	≤ 1.25	50X50	FP/FM	Cu
SH-700DRWEBAXBPM	WRD700	7-18.5	≤ 1.25	50X50	FP/FM	Cu
SH-700DRWHBAXBPM	WRD700	7-18.5	≤ 1.25	50X50	FP/FM	Cu
SH-1100DRWEBAXBPM	WRD110	11-26.5	≤ 1.25	30X30	FP/FM	Cu
SH-1100DRWHBAXBPM	WRD110	11-26.5	≤ 1.25	30X30	FP/FM	Cu
SH-1800DRWEBAXBPM	WRD180	18-40	≤ 1.3	30X30	FP/FM	Cu
SH-1800DRWHBAXBPM	WRD180	18-40	≤ 1.3	30X30	FP/FM	Cu

# WAVEGUIDE BEND

## Dual Ridge Twist Waveguide

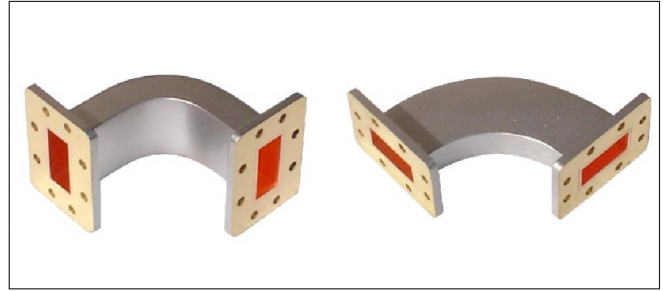


### ELECTRICAL CHARACTERISTICS:

Part No.	WG Type (IEC)	Freq Range (GHz)	VSWR	Standard Length(mm)	Flange	Material
SH-84DRWTA..PM	WRD84	0.84-2	≤1.25	500	FP/FM	Al
SH-150DRWTA..PM	WRD150	1.5-3.6	≤1.25	400	FP/FM	Al
SH-200DRWTA...PM	WRD200	2-4.8	≤1.25	400	FP/FM	Al
SH-250DRWTA.PM	WRD250	2.6-7.8	≤1.25	300	FP/FM	Al
SH-350DRWTA.PM	WRD350	3.5-8.2	≤1.25	300	FP/FM	Al
SH-475DRWTA..PM	WRD475	4.75-11	≤1.25	300	FP/FM	Cu
SH-500DRWTA..PM	WRD500	5-18	≤1.25	200	FP/FM	Cu
SH-580DRWTA..PM	WRD580	5.8-16	≤1.25	200	FP/FM	Cu
SH-650DRWTAPM	WRD650	6.5-18	≤1.25	200	FP/FM	Cu
SH-750DRWTA..PM	WRD750	7.5-18	≤1.25	200	FP/FM	Cu
SH-700DRWTA..PM	WRD700	7-18.5	≤1.25	200	FP/FM	Cu
SH-1100DRWTA...PM	WRD110	11-26.5	≤1.25	150	FP/FM	Cu
SH-1800DRWTA...PM	WRD180	18-40	≤1.3	80	FP/FM	Cu

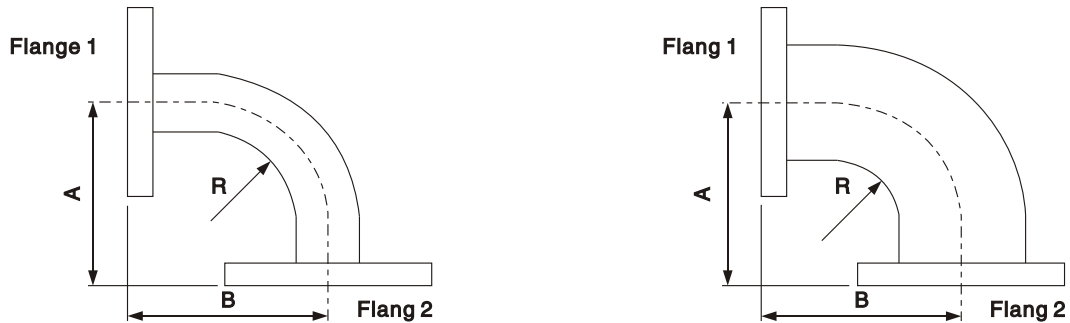
## STRAIGHT WAVEGUIDE

Shinhom Microwave offers a standard product line of E-bends and H-bends covering waveguide sizes WR10 thru WR430. Multi-degrees, additional sizes, configurations and combinations are available on request.



### ELECTRICAL CHARACTERISTICS:

Part No.	Freq Range (GHz)	VSWR (Max)	Std Dimensions AxBxR(mm)	WG type		Flange	Material
				IEC	EIA		
SH-22WEB...	1.72-2.61	1.15	190x190x95	R22	WR430	FDP/FDM	Al/Cu
SH-22WEB...	1.72-2.61	1.15	250x250x152	R22	WR430	FDP/FDM	Al/Cu
SH-26WEB...	2.17-3.30	1.15	100x100x40	R26	WR340	FDP/FDM	Al/Cu
SH-26WEB...	2.17-3.30	1.15	180x180x100	R26	WR340	FDP/FDM	Al/Cu
SH-32WEB...	2.60-3.95	1.10	100x100x40	R32	WR274	FDP/FDM	Al/Cu
SH-32WEB...	2.60-3.95	1.10	160x160x100	R32	WR284	FDP/FDM	Al/Cu
SH-40WEB...	3.22-4.90	1.10	80x80x40	R40	WR229	FDP/FDM	Al/Cu
SH-40WEB...	3.22-4.90	1.10	120x120x78	R40	WR229	FDP/FDM	Al/Cu
SH-48WEB...	3.94-5.99	1.10	80x80x40	R48	WR187	FDP/FDM	Al/Cu
SH-48WEB...	3.94-5.99	1.10	80x80x40	R48	WR187	FDP/FDM	Al/Cu
SH-58WEB...	4.64-7.05	1.10	80x80x40	R58	WR159	FDP/FDM	Al/Cu
SH-58WEB...	4.64-7.05	1.10	80x80x40	R58	WR159	FDP/FDM	Al/Cu
SH-70WEB...	5.38-8.17	1.10	60x60x30	R70	WR137	FDP/FDM	Al/Cu
SH-70WEB...	5.38-8.17	1.10	80x80x50	R70	WR137	FDP/FDM	Al/Cu
SH-84WEB...	6.57-9.99	1.10	50x50x25	R84	WR112	FDP/FDM	Al/Cu
SH-84WEB...	6.57-9.99	1.10	60x60x35	R84	WR112	FDP/FDM	Al/Cu
SH-100WEB...	8.20-12.40	1.10	40x40x20	R100	WR90	FDP/FDM	Al/Cu
SH-100WEB...	8.20-12.40	1.10	55x55x35	R100	WR90	FDP/FDM	Al/Cu
SH-120WEB...	9.84-15.0	1.10	40x40x20	R120	WR75	FDP/FDM	Al/Cu
SH-120WEB...	9.84-15.0	1.10	45x45x30	R120	WR75	FDP/FDM	Al/Cu
SH-140WEB...	11.9-18.0	1.10	40x40x20	R140	WR62	FDP/FDM	Al/Cu
SH-140WEB...	11.9-18.0	1.10	40x40x25	R140	WR62	FDP/FDM	Al/Cu
SH-180WEB...	14.5-22.0	1.10	30x30x15	R180	WR51	FDP/FDM	Al/Cu
SH-180WEB...	14.5-22.0	1.10	35x35x20	R180	WR51	FDP/FDM	Al/Cu
SH-220WEB...	17.6-26.7	1.15	30x30x15	R220	WR42	FDP/FDM	Al/Cu
SH-220WEB...	17.6-26.7	1.15	35x35x20	R220	WR42	FDP/FDM	Al/Cu
SH-260WEB...	21.7-33.0	1.15	30x30x15	R260	WR34	FDP/FDM	Al/Cu
SH-260WEB...	21.7-33.0	1.15	35x35x20	R260	WR34	FDP/FDM	Al/Cu
SH-320WEB...	26.3-40.0	1.15	25x25x10	R320	WR28	FDP/FDM	Al/Cu
SH-320WEB...	26.3-40.0	1.15	30x30x15	R320	WR28	FDP/FDM	Al/Cu
SH-400WEB...	32.9-50.1	1.20	25x25x10	R400	WR22	FUGP	Cu
SH-400WEB...	32.9-50.1	1.20	20x20x10	R400	WR22	FUGP	Cu
SH-500WEB...	39.2-59.6	1.20	25x25x10	R500	WR19	FUGP	Cu
SH-500WEB...	39.2-59.6	1.20	25x25x10	R500	WR19	FUGP	Cu
SH-620WEB...	49.8-75.8	1.20	20x20x10	R620	WR15	FUGP	Cu
SH-620WEB...	49.8-75.8	1.20	25x25x10	R620	WR15	FUGP	Cu
SH-740WEB...	60.5-91.9	1.20	20x20x10	R740	WR12	FUGP	Cu
SH-740WEB...	60.5-91.9	1.20	25x25x10	R740	WR12	FUGP	Cu
SH-900WEB...	73.8-100	1.20	20x20x10	R900	WR10	FUGP	Cu
SH-900WEB...	73.8-100	1.20	25x25x10	R900	WR10	FUGP	Cu



## Ordering Information

Example Part No: SH – 100 WEB 40X40 P M A 45

Shinhom Microwave ————  
 WG type: R100 ————  
 Product Type: WEB: E-bend, WHB: H-bend ————  
 Bend WG Dimensions: A x B = 40 x 40mm ————  
 Flange 1 Type: P=FBP100 ————

————— Bending Angle: 45°  
 (90° as default)  
 Material: A=Aluminum  
 C=Copper  
 Flange 2 Type:  
 M=FBM100

- Flange type: Multiple types available – see Shinhom Microwave Flanges page
- Finish: Corrosion protection plus black/grey top coat
- Bends other than 90° available on request
- Mitered bends available on request