

# Waveguide Power Divider/Combiner



## Waveguide E-Plane Tee

### ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	Unbalance (dB)	VSWR (E-Arm)	IL (dB)	Flange	Material
SH-3WET	WR2300	0.32-0.49	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-4WET	WR2100	0.35-0.53	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-5WET	WR1800	0.41-0.62	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-6WET	WR1500	0.49-0.75	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-8WET	WR1150	0.64-0.98	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-9WET	WR975	0.75-1.15	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-12WET	WR770	0.96-1.46	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-14WET	WR650	1.13-1.73	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-18WET	WR510	1.45-2.20	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-22WET	WR430	1.72-2.61	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-26WET	WR340	2.17-3.30	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-32WET	WR284	2.60-3.95	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-40WET	WR229	3.22-4.90	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-48WET	WR187	3.94-5.99	≤15%	±0.35	≤1.20	≤0.2	FDP	Al
SH-58WET	WR159	4.64-7.05	≤15%	±0.35	≤1.20	≤0.2	FDP	Al
SH-70WET	WR137	5.38-8.17	≤15%	±0.35	≤1.20	≤0.3	FDP	Cu
SH-84WET	WR112	6.57-9.99	≤15%	±0.35	≤1.20	≤0.3	FBP	Cu
SH-100WET	WR90	8.20-12.40	≤15%	±0.35	≤1.20	≤0.3	FBP	Cu
SH-120WET	WR75	9.84-15.0	≤15%	±0.35	≤1.20	≤0.3	FBP	Cu
SH-140WET	WR62	11.9-18.0	≤15%	±0.40	≤1.25	≤0.3	FBP	Cu
SH-180WET	WR51	14.5-22.0	≤15%	±0.40	≤1.25	≤0.4	FBP	Cu
SH-220WET	WR42	17.6-26.7	≤15%	±0.40	≤1.25	≤0.4	FBP	Cu
SH-260WET	WR34	21.7-33.0	≤15%	±0.40	≤1.25	≤0.4	FBP	Cu
SH-320WET	WR28	26.5-40.0	≤15%	±0.40	≤1.25	≤0.4	FBP	Cu
SH-400WET	WR22	32.9-50.1	≤10%	±0.50	≤1.35	≤0.5	FUGP	Cu
SH-500WET	WR19	39.2-59.6	≤10%	±0.50	≤1.35	≤0.5	FUGP	Cu
SH-620WET	WR15	49.8-75.8	≤10%	±0.50	≤1.35	≤0.5	FUGP	Cu
SH-740WET	WR12	60.5-91.9	≤10%	±0.50	≤1.35	≤0.5	FUGP	Cu
SH-900WET	WR10	73.8-112	≤10%	±0.50	≤1.35	≤0.5	FUGP	Cu

# Waveguide Power Divider/Combiner



## Waveguide H-Plane Tee

### ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	Unbalance (dB)	VSWR (E-Arm)	IL (dB)	Flange	Material
SH-3WHT	WR2300	0.32-0.49	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-4WHT	WR2100	0.35-0.53	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-5WHT	WR1800	0.41-0.62	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-6WHT	WR1500	0.49-0.75	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-8WHT	WR1150	0.64-0.98	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-9WHT	WR975	0.75-1.15	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-12WHT	WR770	0.96-1.46	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-14WHT	WR650	1.13-1.73	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-18WHT	WR510	1.45-2.20	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-22WHT	WR430	1.72-2.61	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-26WHT	WR340	2.17-3.30	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-32WHT	WR284	2.60-3.95	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-40WHT	WR229	3.22-4.90	≤15%	±0.25	≤1.15	≤0.2	FDP	Al
SH-48WHT	WR187	3.94-5.99	≤15%	±0.35	≤1.20	≤0.2	FDP	Al
SH-58WHT	WR159	4.64-7.05	≤15%	±0.35	≤1.20	≤0.2	FDP	Al
SH-70WHT	WR137	5.38-8.17	≤15%	±0.35	≤1.20	≤0.3	FDP	Cu
SH-84WHT	WR112	6.57-9.99	≤15%	±0.35	≤1.20	≤0.3	FBP	Cu
SH-100WHT	WR90	8.20-12.40	≤15%	±0.35	≤1.20	≤0.3	FBP	Cu
SH-120WHT	WR75	9.84-15.0	≤15%	±0.35	≤1.20	≤0.3	FBP	Cu
SH-140WHT	WR62	11.9-18.0	≤15%	±0.40	≤1.25	≤0.3	FBP	Cu
SH-180WHT	WR51	14.5-22.0	≤15%	±0.40	≤1.25	≤0.4	FBP	Cu
SH-220WHT	WR42	17.6-26.7	≤15%	±0.40	≤1.25	≤0.4	FBP	Cu
SH-260WHT	WR34	21.7-33.0	≤15%	±0.40	≤1.25	≤0.4	FBP	Cu
SH-320WHT	WR28	26.5-40.0	≤15%	±0.40	≤1.25	≤0.4	FBP	Cu
SH-400WHT	WR22	32.9-50.1	≤10%	±0.50	≤1.35	≤0.5	FUGP	Cu
SH-500WHT	WR19	39.2-59.6	≤10%	±0.50	≤1.35	≤0.5	FUGP	Cu
SH-620WHT	WR15	49.8-75.8	≤10%	±0.50	≤1.35	≤0.5	FUGP	Cu
SH-740WHT	WR12	60.5-91.9	≤10%	±0.50	≤1.35	≤0.5	FUGP	Cu
SH-900WHT	WR10	73.8-112	≤10%	±0.50	≤1.35	≤0.5	FUGP	Cu

# Waveguide Power Divider/Combiner



## Waveguide Magic Tee

### ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	VSWR		Isolation (E-H)(dB)	Unbalance (dB)	Flange	Material
			H-Arm	E-Arm				
SH-3WMT	WR2300	0.32-0.49	≤1.20	≤1.50	≥35	≤0.25	FDP	Al
SH-4WMT	WR2100	0.35-0.53	≤1.20	≤1.50	≥35	≤0.25	FDP	Al
SH-5WMT	WR1800	0.41-0.62	≤1.20	≤1.50	≥35	≤0.25	FDP	Al
SH-6WMT	WR1500	0.49-0.75	≤1.20	≤1.50	≥35	≤0.25	FDP	Al
SH-8WMT	WR1150	0.64-0.98	≤1.20	≤1.50	≥35	≤0.25	FDP	Al
SH-9WMT	WR975	0.75-1.15	≤1.20	≤1.50	≥35	≤0.25	FDP	Al
SH-12WMT	WR770	0.96-1.46	≤1.20	≤1.50	≥35	≤0.25	FDP	Al
SH-14WMMT	WR650	1.13-1.73	≤1.20	≤1.50	≥35	≤0.25	FDP	Al
SH-18WMT	WR510	1.45-2.20	≤1.20	≤1.50	≥35	≤0.25	FDP	Al
SH-22WMT	WR430	1.72-2.61	≤1.20	≤1.50	≥35	≤0.4	FDP	Al
SH-26WMT	WR340	2.17-3.30	≤1.20	≤1.50	≥35	≤0.4	FDP	Al
SH-32WMT	WR284	2.60-3.95	≤1.20	≤1.50	≥35	≤0.4	FDP	Al
SH-40WMT	WR229	3.22-4.90	≤1.20	≤1.50	≥35	≤0.4	FDP	Al
SH-48WMT	WR187	3.94-5.99	≤1.20	≤1.50	≥35	≤0.4	FDP	Al
SH-58WMT	WR159	4.64-7.05	≤1.20	≤1.50	≥35	≤0.4	FDP	Al
SH-70WMT	WR137	5.38-8.17	≤1.20	≤1.50	≥35	≤0.4	FDP	Cu
SH-84WMMT	WR112	6.57-9.99	≤1.20	≤1.50	≥35	≤0.4	FBP	Cu
SH-100WMT	WR90	8.20-12.40	≤1.20	≤1.50	≥35	≤0.4	FBP	Cu
SH-120WMT	WR75	9.84-15.0	≤1.20	≤1.50	≥35	≤0.4	FBP	Cu
SH-140WMT	WR62	11.9-18.0	≤1.20	≤1.50	≥35	≤0.4	FBP	Cu
SH-180WMT	WR51	14.5-22.0	≤1.20	≤1.50	≥35	≤0.4	FBP	Cu
SH-220WMT	WR42	17.6-26.7	≤1.20	≤1.50	≥30	≤0.4	FBP	Cu
SH-260WMT	WR34	21.7-33.0	≤1.20	≤1.50	≥30	≤0.4	FBP	Cu
SH-320WMT	WR28	26.5-40.0	≤1.20	≤1.50	≥30	≤0.4	FBP	Cu
SH-400WMT	WR22	32.9-50.1	≤1.20	≤1.50	≥30	≤0.5	FUGP	Cu
SH-500WMT	WR19	39.2-59.6	≤1.20	≤1.50	≥30	≤0.5	FUGP	Cu
SH-620WMT	WR15	49.8-75.8	≤1.20	≤1.50	≥30	≤0.5	FUGP	Cu
SH-740WMT	WR12	60.5-91.9	≤1.20	≤1.50	≥30	≤0.5	FUGP	Cu
SH-900WMT	WR10	73.8-112	≤1.20	≤1.50	≥30	≤0.5	FUGP	Cu

# Waveguide Power Divider/Combiner

## In-Phase Waveguide Power Divider / Combiner



### ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	VSWR		Isolation (2 Balance Arms)	Distribution Ratio(dB)	Flange	Material
				H-Arm	Balance Arm				
SH-3WMT	WR2300	0.32-0.49	≤20%	≤1.20	≤1.50	≥17	3±0.25	FDP	Al
SH-4WMT	WR2100	0.35-0.53	≤20%	≤1.20	≤1.50	≥17	3±0.25	FDP	Al
SH-5WMT	WR1800	0.41-0.62	≤20%	≤1.20	≤1.50	≥17	3±0.25	FDP	Al
SH-6WMT	WR1500	0.49-0.75	≤20%	≤1.20	≤1.50	≥17	3±0.25	FDP	Al
SH-8WMT	WR1150	0.64-0.98	≤20%	≤1.20	≤1.50	≥17	3±0.25	FDP	Al
SH-9WMT	WR975	0.75-1.15	≤20%	≤1.20	≤1.50	≥17	3±0.25	FDP	Al
SH-12WMT	WR770	0.96-1.46	≤20%	≤1.20	≤1.50	≥17	3±0.25	FDP	Al
SH-14WMMT	WR650	1.13-1.73	≤20%	≤1.20	≤1.50	≥17	3±0.25	FDP	Al
SH-18WMT	WR510	1.45-2.20	≤20%	≤1.20	≤1.50	≥17	3±0.25	FDP	Al
SH-22WMT	WR430	1.72-2.61	≤20%	≤1.20	≤1.50	≥17	3±0.4	FDP	Al
SH-26WMT	WR340	2.17-3.30	≤20%	≤1.20	≤1.50	≥17	3±0.4	FDP	Al
SH-32WMT	WR284	2.60-3.95	≤20%	≤1.20	≤1.50	≥17	3±0.4	FDP	Al
SH-40WMT	WR229	3.22-4.90	≤20%	≤1.20	≤1.50	≥17	3±0.4	FDP	Al
SH-48WMT	WR187	3.94-5.99	≤20%	≤1.20	≤1.50	≥17	3±0.4	FDP	Al
SH-58WMT	WR159	4.64-7.05	≤20%	≤1.20	≤1.50	≥17	3±0.4	FDP	Al
SH-70WMT	WR137	5.38-8.17	≤20%	≤1.20	≤1.50	≥17	3±0.4	FDP	Cu
SH-84WMMT	WR112	6.57-9.99	≤20%	≤1.20	≤1.50	≥17	3±0.4	FBP	Cu
SH-100WMT	WR90	8.20-12.40	≤20%	≤1.20	≤1.50	≥17	3±0.4	FBP	Cu
SH-120WMT	WR75	9.84-15.0	≤20%	≤1.20	≤1.50	≥17	3±0.4	FBP	Cu
SH-140WMT	WR62	11.9-18.0	≤20%	≤1.20	≤1.50	≥17	3±0.4	FBP	Cu
SH-180WMT	WR51	14.5-22.0	≤20%	≤1.20	≤1.50	≥17	3±0.4	FBP	Cu
SH-220WMT	WR42	17.6-26.7	≤20%	≤1.20	≤1.50	≥15	3±0.4	FBP	Cu
SH-260WMT	WR34	21.7-33.0	≤20%	≤1.20	≤1.50	≥15	3±0.4	FBP	Cu
SH-320WMT	WR28	26.5-40.0	≤20%	≤1.20	≤1.50	≥15	3±0.4	FBP	Cu
SH-400WMT	WR22	32.9-50.1	≤20%	≤1.20	≤1.50	≥15	3±0.5	FUGP	Cu
SH-500WMT	WR19	39.2-59.6	≤20%	≤1.20	≤1.50	≥15	3±0.5	FUGP	Cu
SH-620WMT	WR15	49.8-75.8	≤20%	≤1.20	≤1.50	≥15	3±0.5	FUGP	Cu
SH-740WMT	WR12	60.5-91.9	≤20%	≤1.20	≤1.50	≥15	3±0.5	FUGP	Cu
SH-900WMT	WR10	73.8-112	≤20%	≤1.20	≤1.50	≥15	3±0.5	FUGP	Cu

# Waveguide Power Divider/Combiner



## Double-Ridged Waveguide Magic Tee and Power Divider/Combiner

### ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	VSWR		Isolation (E-H) (dB)	Distribution Ratio(dB)	Flange	Material
			H-Arm	E-Arm				
SH-200DRWMTPC/D	WRD200	2.0-4.8	≤1.50	≤1.50	≥12	3±0.6	FP	Al
SH-250DRWMTPC/D	WRD250	2.6-7.8	≤1.50	≤1.50	≥12	3±0.6	FP	Al
SH-350DRWMTPC/D	WRD350	3.5-8.2	≤1.50	≤1.50	≥12	3±0.6	FP	Al
SH-475DRWMTPC/D	WRD475	4.75-11	≤1.50	≤1.50	≥12	3±0.6	FP	Al
SH-500DRWMTPC/D	WRD500	5.0-18.0	≤1.50	≤1.50	≥12	3±0.6	FP	Cu
SH-650DRWMTPC/D	WRD650	6.5-18.0	≤1.50	≤1.50	≥12	3±0.6	FP	Cu
SH-750DRWMTPC/D	WRD750	7.5-18.0	≤1.50	≤1.50	≥12	3±0.6	FP	Cu
SH-700DRWMTPC/D	WRD700	7.0-18.0	≤1.50	≤1.50	≥12	3±0.6	FP	Cu