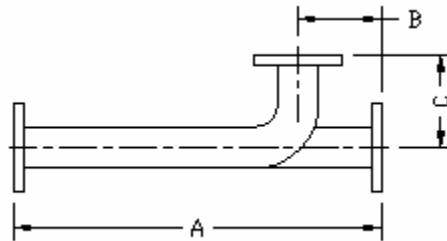


**Key Features**

- Low insertion loss
- High directivity

**General Description**

WHC series multi-hole waveguide directional couplers are offered for frequency range from 2.6 to 110 GHz. The standard coupling levels are 3, 6, 10, 20, and 30dB with full waveguide operational bandwidth. The high directivity is achieved via low VSWR built-in termination. The typical usages of the multi-hole coupler are for power sampling and frequency monitoring with minimum signal loss on the main transmitting path.

**Outline Drawing****Typical Specification**

Part No.	Frequency, GHz	Waveguide Sizes	Flange Type	Coupling dB	Directivity, dB	VSWR	Dimensions, mm		
							A	B	H
WHC075-03-01	8.2~12.4	WR-90	UG-39/U	3.0±1.0	30	1.15:1	78	30	590
WHC075-03-01	8.2~12.4	WR-90	UG-39/U	6.0±1.2	30	1.15:1	78	30	560
WHC075-03-01	8.2~12.4	WR-90	UG-39/U	10.0±1.5	30	1.15:1	78	30	530
WHC075-03-01	8.2~12.4	WR-90	UG-39/U	20.0±2.0	30	1.15:1	78	30	500
WHC075-03-01	8.2~12.4	WR-90	UG-39/U	30.0±3.0	30	1.15:1	78	30	470
WHC075-03-01	10.0~15.0	WR-75	UBR120	3.0±1.0	30	1.15:1	68	22	500
WHC075-06-01	10.0~15.0	WR-75	UBR120	6.0±1.2	30	1.15:1	68	22	460
WHC075-10-01	10.0~15.0	WR-75	UBR120	10.0±1.5	30	1.15:1	68	22	420
WHC075-20-01	10.0~15.0	WR-75	UBR120	20.0±2.0	30	1.15:1	68	22	380
WHC075-30-01	10.0~15.0	WR-75	UBR120	30.0±3.0	30	1.15:1	68	22	340
WHC062-03-01	12.0~18.0	WR-62	UG419/U	3.0±1.0	30	1.15:1	58	22	410
WHC062-06-01	12.0~18.0	WR-62	UG419/U	6.0±1.2	30	1.15:1	58	22	390
WHC062-10-01	12.0~18.0	WR-62	UG419/U	10.0±1.5	30	1.15:1	58	22	370

WHC062-20-01	12.0~18.0	WR-62	UG419/U	20.0±2.0	30	1.15:1	58	22	350
WHC062-30-01	12.0~18.0	WR-62	UG419/U	30.0±3.0	30	1.15:1	58	22	330
WHC042-03-01	18.0~26.5	WR-42	UG595/U	3.0±1.0	30	1.15:1	38	15	288
WHC042-06-01	18.0~26.5	WR-42	UG595/U	6.0±1.2	30	1.15:1	38	15	268
WHC042-10-01	18.0~26.5	WR-42	UG595/U	10.0±1.5	30	1.15:1	38	15	248
WHC042-20-01	18.0~26.5	WR-42	UG595/U	20.0±2.0	30	1.15:1	38	15	228
WHC042-30-01	18.0~26.5	WR-42	UG595/U	30.0±3.0	30	1.15:1	38	15	208
WHC034-03-01	22.0~33.0	WR-34	UG1530/U	3.0±1.0	30	1.15:1	38	15	240
WHC034-06-01	22.0~33.0	WR-34	UG1530/U	6.0±1.2	30	1.15:1	38	15	230
WHC034-10-01	22.0~33.0	WR-34	UG1530/U	10.0±1.5	30	1.15:1	38	15	220
WHC034-20-01	22.0~33.0	WR-34	UG1530/U	20.0±2.0	30	1.15:1	38	15	210
WHC034-30-01	22.0~33.0	WR-34	UG1530/U	30.0±3.0	30	1.15:1	38	15	190
WHC028-03-01	26.5~40.0	WR-28	UG599/U	3.0±1.0	30	1.15:1	33	18	210
WHC028-06-01	26.5~40.0	WR-28	UG599/U	6.0±1.2	30	1.15:1	33	18	205
WHC028-10-01	26.5~40.0	WR-28	UG599/U	10.0±1.5	30	1.15:1	33	18	200
WHC028-20-01	26.5~40.0	WR-28	UG599/U	20.0±2.0	30	1.15:1	33	18	186
WHC028-30-01	26.5~40.0	WR-28	UG599/U	30.0±3.0	30	1.15:1	33	18	180
WHC022-03-01	33.0~50.0	WR-22	UG383/U	3.0±1.0	30	1.15:1	33	18	200
WHC022-06-01	33.0~50.0	WR-22	UG383/U	6.0±1.2	30	1.15:1	33	18	190
WHC022-10-01	33.0~50.0	WR-22	UG383/U	10.0±1.5	30	1.15:1	33	18	180
WHC022-20-01	33.0~50.0	WR-22	UG383/U	20.0±2.0	30	1.15:1	33	18	170
WHC022-30-01	33.0~50.0	WR-22	UG383/U	30.0±3.0	30	1.15:1	33	18	160
WHC019-03-01	40.0~60.0	WR-19	UG383/U	3.0±1.0	30	1.15:1	33	18	180
WHC019-06-01	40.0~60.0	WR-19	UG383/U	6.0±1.2	30	1.15:1	33	18	170
WHC019-10-01	40.0~60.0	WR-19	UG383/U	10.0±1.5	30	1.15:1	33	18	160
WHC019-20-01	40.0~60.0	WR-19	UG383/U	20.0±2.0	30	1.15:1	33	18	150
WHC019-30-01	40.0~60.0	WR-19	UG383/U	30.0±3.0	30	1.15:1	33	18	140
WHC010-03-01	75.0~110.0	WR-10	UG387/U	3.0±1.0	30	1.15:1	33	18	140
WHC010-06-01	75.0~110.0	WR-10	UG387/U	6.0±1.2	30	1.15:1	33	18	123
WHC010-10-01	75.0~110.0	WR-10	UG387/U	10.0±1.5	30	1.15:1	33	18	109
WHC010-20-01	75.0~110.0	WR-10	UG387/U	20.0±2.0	30	1.15:1	33	18	97
WHC010-30-01	75.0~110.0	WR-10	UG387/U	30.0±3.0	30	1.15:1	33	18	90