

Broad Wall Multi-Hole Couplers

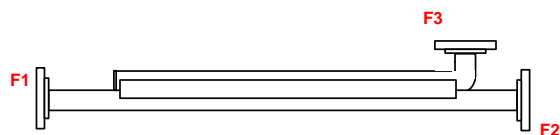
Luso Electronics range of broad-wall multi-hole directional couplers utilise a well matched Tchebyscheff coupling array to obtain optimum coupling flatness and directivity. These couplers are available as single or dual types with coupling values ranging from 10 to 50dB. Standard construction is copper waveguide with brass flanges. For custom design requirements, including other coupling values and narrow bandwidths please contact the sales office.

Full band specifications

Mean Coupling	10, 20, 30, 40 or 50dB \pm 5%
Coupling Sensitivity	\pm 0.5dB max.
Directivity	40.0dB min. (WR284 to WR62) 35.0dB min. (WR51 & WR42)
Main Line VSWR	1.05:1 max.
Secondary Arm VSWR	1.10:1 max.

Standard product table

WAVEDUIDE SIZE		FREQUENCY RANGE (GHz)	STANDARD FLANGES	BASE MODEL No.
WR284	WG10	2.60 - 3.95	CPR284F	LU284BWC
WR229	WG11A	3.30 - 4.90	CPR229F	LU229BWC
WR187	WG12	3.95 - 5.85	CPR187F	LU187BWC
WR159	WG13	4.90 - 7.05	CPR159F	LU159BWC
WR137	WG14	5.85 - 8.20	CPR137F	LU137BWC
WR112	WG15	7.05 - 10.00	UBR84	LU112BWC
WR90	WG16	8.20 - 12.40	UBR100	LU90BWC
WR75	WG17	10.00 - 15.00	UBR120	LU75BWC
WR62	WG18	12.40 - 18.00	UBR140	LU62BWC
WR51	WG19	15.00 - 22.00	UBR180	LU51BWC
WR42	WG20	18.00 - 26.50	UBR220	LU42BWC



Single



Dual

Example: LU75BWC-10-20 is a WR75 Dual Broad Wall Multi-Hole Coupler with coupling factors of -10dB (F1 to F3) and -20dB (F2 to F4) with UBR120 flanges. For other flange types, please specify F1, F2, F3 and F4 on purchase order.