

Full Band Cross-Guide Couplers

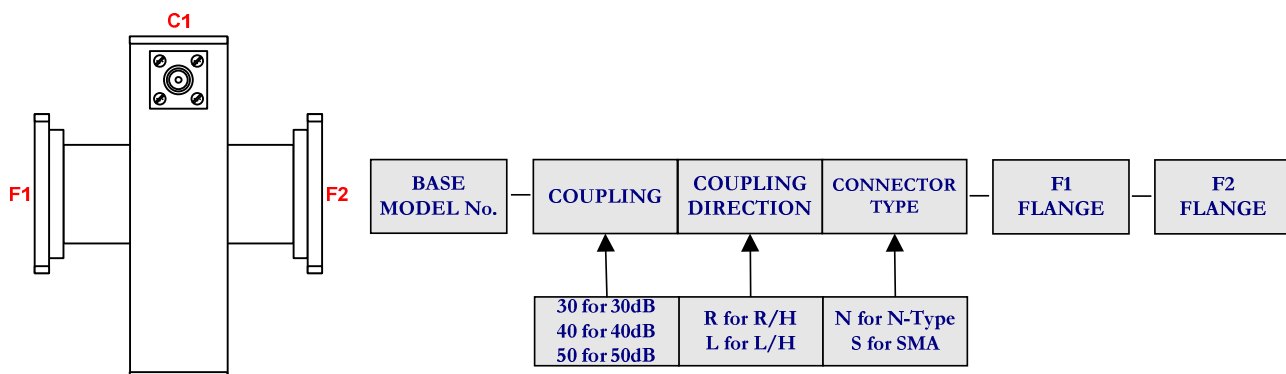
Luso Electronics range of full band single cross-guide couplers have excellent coupling flatness and directivity over the full frequency band. They are ideally suited to applications like forward and reverse power monitoring. Standard construction is copper waveguide with brass flanges. For custom design requirements, including other connectors and different configurations including dual or triple secondary arms please contact the sales office.

Full band specifications

Mean Coupling	30, 40 or 50dB \pm 1dB
Coupling Sensitivity	\pm 1.0dB max.
Directivity	20.0dB min. (23.0dB typical)
Main Line VSWR	1.05:1 max.
Secondary Arm VSWR	1.20:1 max.

Standard product table

WAVEGUIDE SIZE		FREQUENCY RANGE (GHz)	STANDARD FLANGES	CONNECTOR TYPE (FEMALE)	BASE MODEL No.
WR284	WG10	2.60 - 3.95	CPR284G	N or SMA	LU284XC
WR229	WG11A	3.30 - 4.90	CPR229G	N or SMA	LU229XC
WR187	WG12	3.95 - 5.85	CPR187FG	N or SMA	LU187XC
WR159	WG13	4.90 - 7.05	CPR159G	N or SMA	LU159XC
WR137	WG14	5.85 - 8.20	CPR137G	N or SMA	LU137XC
WR112	WG15	7.05 - 10.00	PBR84	N or SMA	LU112XC
WR90	WG16	8.20 - 12.40	PBR100	N or SMA	LU90XC
WR75	WG17	10.00 - 15.00	PBR120	N or SMA	LU75XC
WR62	WG18	12.40 - 18.00	PBR140	N or SMA	LU62XC
WR51	WG19	15.00 - 22.00	PBR180	SMA	LU51XC
WR42	WG20	18.00 - 26.50	PBR220	SMA	LU42XC



Coupling Direction: Left Hand is from F1 to C1 and Right Hand is from F2 to C1

Example: LU75XC-40LN is a WR75 Cross-guide coupler with a 40dB coupling from F1 to C1 and an N-type connector. Standard flanges are PBR120. For other flange types, please specify F1 and F2 on purchase order.