

Satcoms Branch Guide Couplers

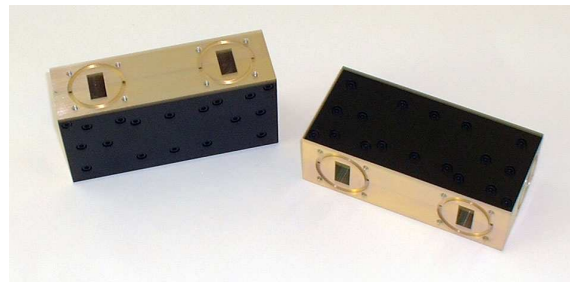
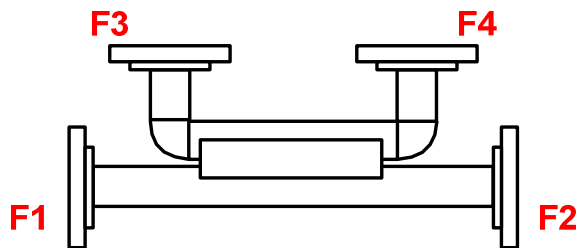
Luso Electronics range of branch guide couplers are designed for high power combining and dividing applications. Standard units are available as either symmetrical (3dB) or asymmetrical couplers covering the standard satellite communications bands. Standard construction is copper waveguide with brass flanges or split aluminium block. For custom design requirements, including other flanges please contact the sales office.

Specifications

| | |
|----------------------|-----------------------------|
| Mean Coupling | 3.0, 4.77 or 6.0 ± 0.5dB |
| Coupling Sensitivity | ± 0.3dB max. |
| VSWR (all ports) | 1.10 max. (1.06 typical) |
| Isolation | 28.0dB min (30.0dB typical) |

Standard product table

| WAVEDUIDE SIZE | | FREQUENCY RANGE (GHz) | STANDARD FLANGES | BASE MODEL No. | MATERIAL |
|----------------|------|-----------------------|------------------|-----------------------------|----------|
| WR137 | WG14 | 5.85 - 6.65 | CPR137G | LU137BGC-1C | Cu/Brass |
| WR137 | WG14 | 7.90 - 8.40 | CPR137G | LU137BGC-2C | Cu/Brass |
| WR112 | WG15 | 7.25 - 7.75 | CPR112G | LU112BGC-1C | Cu/Brass |
| WR112 | WG15 | 7.90 - 8.40 | CPR112G | LU112BGC-2C | Cu/Brass |
| WR75 | WG17 | 10.70 - 12.75 | PBR120 | LU75BGC-1C | Cu/Brass |
| WR75 | WG17 | 10.70 - 12.75 | PBR120 | LU75BGC-1A | Al.Alloy |
| WR75 | WG17 | 12.75 - 14.50 | PBR120 | LU75BGC-2C | Cu/Brass |
| WR75 | WG17 | 12.75 - 14.50 | PBR120 | LU75BGC-2A | Al.Alloy |
| WR62 | WG18 | 17.00 - 18.40 | PBR140 | LU62BGC-1C | Cu/Brass |
| WR64 | WG18 | 17.00 - 18.40 | PBR140 | LU62BGC-1A | Al.Alloy |



Examples: [LU75BGC-2A-3](#) is a WR75 Branch Coupler, frequency 12.75 – 14.50, made from aluminium with coupling factor of -3dB and has PBR120 flanges.

[LU137BGC-1C-4.77](#) is a WR137 Branch Coupler, frequency 5.85 – 6.65, made from copper and brass with coupling factor of -4.77dB and has CPR137G flanges.

For other flange types, please specify F1, F2, F3 and F4 on purchase order.