

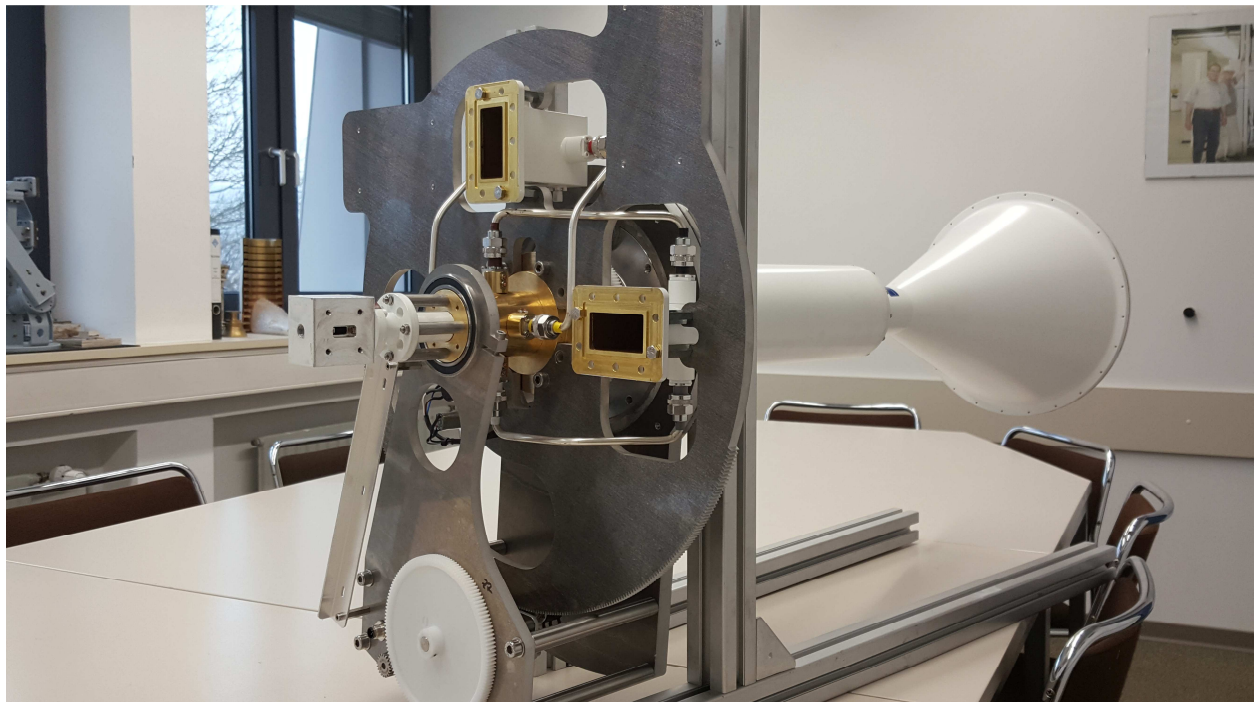
C-/ Ku- Band 4-Port Combiner with switchable circular/linear Polarization at C- Band	Type: FSY-01-C/Ku-R-014
Frequency Range C- Band	3.4 GHz to 4.2 GHz
Frequency Range Ku- Band	10.7 GHz to 12.75 GHz
Return Loss C- Band	≥ 16 dB
Return Loss KU- Band	≥ 16 dB
Polarization C-band:	Dual RHCP/LHCP or Dual Linear H/V, selectable by electric drive
Polarization Ku- Band	Dual Linear H/V, polarization adjustable by electric drive
Cross Polarization Isolation, circular	≥ 25 dB
Cross Polarization Isolation, linear	≥ 35 dB
Insertion Loss C- Band	≤ 0.35 dB
Insertion Loss Ku- Band	≤ 0.3 dB
Waveguide size C- Band	R40 / WR 229
Flanges Port 1 and Port 2	CPR 229 G
Waveguide size Ku- Band	R120 / WR 75
Flanges Port 3 and Port 4	UBR 120; optional PBR 120
Common Port	Customer TBS
Material	Brass and Aluminium
Finish	White Paint (standard)
Operating Temperature	-20° C to 40° C
Operation Pressure	max. 10 kPa (100 mbar)

Note: Suitable Dual- Band Feedhorn is available to illuminate Gregory 3.7 m Reflector System with $f/D = 0.37$ (for instance ASC Signal) or Cassegrain 11 m Reflector System with $f/D = 0.35$ (for instance Vertex). Ask for other Reflector Systems, suitable Feedhorns can be supplied.

C-/ Ku- Band 4-Port Combiner with switchable circular/linear Polarization at C- Band	Type: FSY-01-C/Ku-R-14
---	-------------------------------

Electrical Performance of Antennas equipped with the C-/Ku- Band switchable Combiner

			3.7 m Gregory Antenna ASC Signal	11 m Cassegrain Antenna Vertex
Antenna Gain referred to the Rx ports of the 4-Port Combiner	C- Band 3.4 – 4.2 GHz	CP/LP	F = 3.800 GHz ≥ 40.3dBi	F = 3.800 GHz ≥ 50.8 dBi
	Ku- Band 10,7 – 12.75 GHz	H/V	F = 11.750 GHz ≥ 50.8 dBi	F = 11.750 GHz ≥ 60.8 dBi



C-/ Ku- Band 4-Port Combiner with Feedhorn for 3.7 m Gregory Antenna