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Feeder Network for C/Ku-Band Extended

C/Ku-Band 4-Port Combiner up to 4.8 GHz with switchable circular/linear Polarization at C- Band for 11M GD Satcom (can be adapted to a 3.7m Gregorian antenna and other existing antennas)

Type: FSY-01-C/Ku-R-015

	C- Band	Ku- Band	
Frequency Range	3.4 GHz to 4.8 GHz	10.7 GHz to 12.75 GHz	
Return Loss	≥ 16 dB	≥ 16 dB	
Polarization	Dual RHCP/LHCP or Dual Linear H/V, selectable by electric drive	Dual Linear H/V, polari- zation adjustable by electric drive	
Insertion Loss	≤ 0.35 dB	≤ 0.3 dB	
Waveguide size	R40 / WR 229	R120 / WR 75	
Flanges Port 1 and Port 2	CPR 229 G		
Flanges Port 3 and Port 4		UBR 120; optional PBR 120	
Common Port	Customer TBS		
Cross Polarization Isolation, circular	≥ 25 dB		
Cross Polarization Isolation, linear	≥ 35 dB		
Materia	Brass and Aluminium		
Finish	White Paint (standard)		
Operating Temperature	-20° C to 40° C		
Operation Pressure	max. 10 kPa (100 mbar)		

The right to modify the Technical Specifications is reserved

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Type: FSY-01-C/Ku-R-

This combiner in general is equipped with motorised switching between linear and circular polarisation for C-band and additionally with motorised adjustment for linear polarisation at C-band and Ku-band. (Please ask for a manual and non-motorised combiner)

Note: Suitable Dual- Band Feedhorn is suitable to illuminate Cassegrain 11 m

Reflector System with f/D approx. 0.35 (for instance Vertex) or as well Gregorian

3.7 Reflector system with f/D = 0.37 (for instance ASC signal).

Combiner offers easy upgrade or modification of existing antennas to Dual- Band operation.

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

			11 m Cassegrain Antenna Vertex
Antenna Gain referred to the Rx ports of the 4-Port Combiner	C- Band 3.4 - 4.8 GHZ	CP/LP	F = 3.800 GHz ≥ 50.8 dBi
	Ku- Band 10,7 - 12.75 GHz	H/V	F = 11.750 GHz≥ 60.8 dBi



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