



ACTIVE RADAR REFLECTORS WITH ADJUSTABLE R.C.S.: LUNA412V-65 / LUNA412V-70 / LUNA412V-80

Specifications	Frequency range	4 to 12 GHz	Amplifier unit with adjustable gain in C and X bands, allowing modification of resulting R.C.S. value.
	Gain	65, 70 or 80 dB max	
	Digital attenuator on 8 bits	0 to 32 dB by step of 0.125 dB	
	DC power supply	9/36 V	
		1.3 A	
	Working temperature	0 to +50°C	
Dimensions	129 x 110mm h=62mm		

The gain will be adjustable with the attenuator command, in order to obtain the requested R.C.S.

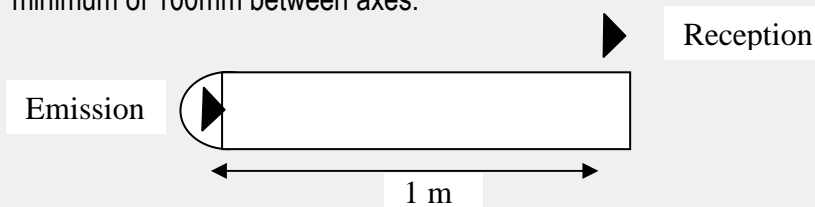
Measurements Each unit is delivered with 2 gain patterns for attenuator adjusted to 0 and 20dB.

Options

- Supply of circular polarization wide band antennas with +/-80° of aperture
- Supply of rectilinear polarization narrow band antennas with +/-70° of aperture
- Supply of antennas to specification (rectilinear or circular polarization)
- Supply of cables (length upon request)

Usage precautions

- In order to avoid coupling, the antennas must be at least 1 m apart with minimum of 100mm between axes.



Examples of R.C.S. in circular polarization

Max gain = 65 dB

Frequency (GHz)	Min R.C.S.	Max R.C.S.
4	0.9 m ²	1415 m ²
12	0.1 m ²	157 m ²

Max gain = 70 dB

Frequency (GHz)	Min R.C.S.	Max R.C.S.
4	2.8 m ²	4476 m ²
12	0.3 m ²	497 m ²

Max gain = 80 dB

Frequency (GHz)	Min R.C.S.	Max R.C.S.
4	28 m ²	44760 m ²
12	3 m ²	4973 m ²