



ACTIVE RADAR REFLECTORS WITH  
ADJUSTABLE R.C.S.: LUNA207V-65 /  
LUNA207V-70 / LUNA207V-80

<b>Specifications</b>	Frequency range	2 to 7 GHz	Amplifier unit with adjustable gain in S and C bands, allowing modification of resulting R.C.S. value.
	Gain	65, 70 or 80 dB max	
	8-bit Digital Attenuator	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		

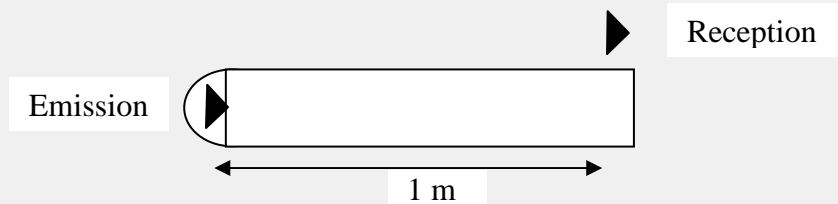
The gain will be adjustable with the attenuator command, in order to obtain the requested R.C.S.

**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.
3	1.6 m <sup>2</sup>	2516 m <sup>2</sup>
5	0.6 m <sup>2</sup>	905 m <sup>2</sup>

Max gain = 70 dB

Frequency (GHz)	Min R.C.S.	Max R.C.S.
3	5 m <sup>2</sup>	7957 m <sup>2</sup>
5	1.8 m <sup>2</sup>	2865 m <sup>2</sup>

Max gain = 80 dB

Frequency (GHz)	Min R.C.S.	Max R.C.S.
3	50 m <sup>2</sup>	79577 m <sup>2</sup>
5	18 m <sup>2</sup>	28648 m <sup>2</sup>