



ACTIVE RADAR REFLECTORS WITH  
ADJUSTABLE R.C.S.: LUNA818V-65 /  
LUNA818V-70 / LUNA818V-80

<b>Specifications</b>	Frequency range	8 to 18 GHz	Amplifier unit with adjustable gain in X and Ku 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		

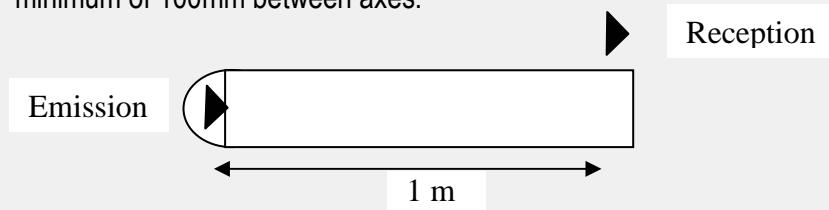
The gain will be adjustable with the attenuator command, in order to obtain the requested R.C.S.

**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.
8	0.2 m <sup>2</sup>	350 m <sup>2</sup>
18	0.04 m <sup>2</sup>	70 m <sup>2</sup>
Max gain = 70 dB		
Frequency (GHz)	Min R.C.S.	Max R.C.S.
8	0.7 m <sup>2</sup>	1120 m <sup>2</sup>
18	0.14 m <sup>2</sup>	221 m <sup>2</sup>
Max gain = 80 dB		
Frequency (GHz)	Min R.C.S.	Max R.C.S.
8	7 m <sup>2</sup>	11200 m <sup>2</sup>
18	1.4 m <sup>2</sup>	2210 m <sup>2</sup>

