



ACTIVE RADAR REFLECTORS WITH ADJUSTABLE R.C.S.: LUNA218V-65 / LUNA218V-70 / LUNA218V-80

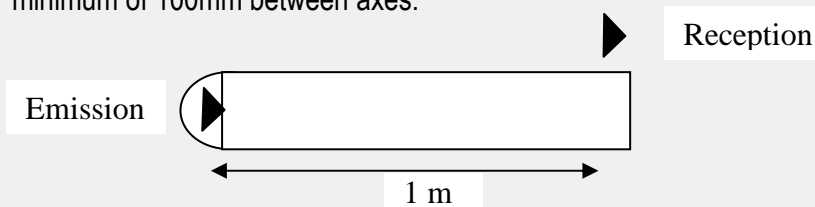
Specifications	Frequency range	2 to 18 GHz	Amplifier unit with adjustable gain allowing modification of resulting R.C.S. value.
	Gain	65, 70 or 80 dB max	
	Digital attenuator on 8 bits	0 to 32 dB by step of 0.125 dB	
	DC power supply	9/36 V	
		1.3 A	
	Working temperature	0 to +50°C	
	Dimensions	129 x 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)
 - Filters: low pass, high pass, band pass between 4 and 18GHz

- 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)	3	5	9	14	16
Min R.C.S. (m ²)	1.6	0.6	0.18	0.07	0.06
Max R.C.S. (m ²)	2516	905	279	115	88

Max gain = 70 dB

Frequency (GHz)	3	5	9	14	16
Min R.C.S. (m ²)	5	1.8	0.6	0.2	0.18
Max R.C.S. (m ²)	7957	2865	884	365	280

Max gain = 80 dB

Frequency (GHz)	3	5	9	14	16
Min R.C.S. (m ²)	50	18	5.6	2.3	1.8
Max R.C.S. (m ²)	79577	28648	8842	3654	2797