



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

Specifications

Frequency range	2 to 18 GHz
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

Amplifier unit with adjustable gain allowing modification of resulting R.C.S. value.

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

Measurements

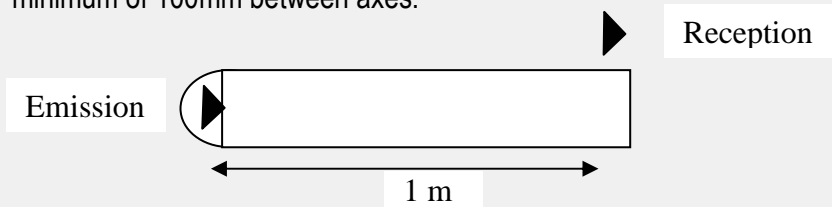
Each unit is delivered with 2 gain patterns for attenuator adjusted to 0 and 20dB.

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

