

AVC-103 Circular Polarization Omnidirectional Antenna

The AVC-103 is an omnidirectional circular polarization antenna which provides 3 dBiC gain on the horizon. Many applications benefit from circular polarization to optimize performance, in particular ground to airborne applications.

The vertical polarization pattern provides a null in boresight and maxima in the horizon, making it suitable for medium/long range links. The omnidirectional horizontal radiation pattern, makes possible to transmit the signal without the need to steer the antenna.

The low wind resistance and low weight make this antenna the best option for airborne applications.

The circular polarization offers best performance in motion links and in multipath environments. Besides, the effect of signal reflections on the belly of the helicopter is minimized when circular polarization is used.

It can be installed in the fuselage of the helicopter or in an actuator arm, which is usually located in the skid of the helicopter.



Characteristics

Frequency band

1.3 to 1.45 GHz

Gain

3 dBiC

Polarization

RH Circular

Beamwidth

80° V, 360° H

VSWR

<2:1 max

Radome

Glass Fibre

Colour

White

Wind loading

2.0 kg (4.31bs) at 100 mph

Connector

SMA (M)

Temperature range

-40 to +70 °C

Size

179 x D 114 mm

Weight

0.680 kg

Power Rating

20 W

Order Information:

AVC-103 (1.3 to 1.45GHz)

For other frequency bands, contact SVP

Design and specifications are subject to changes without prior notice. 01/19