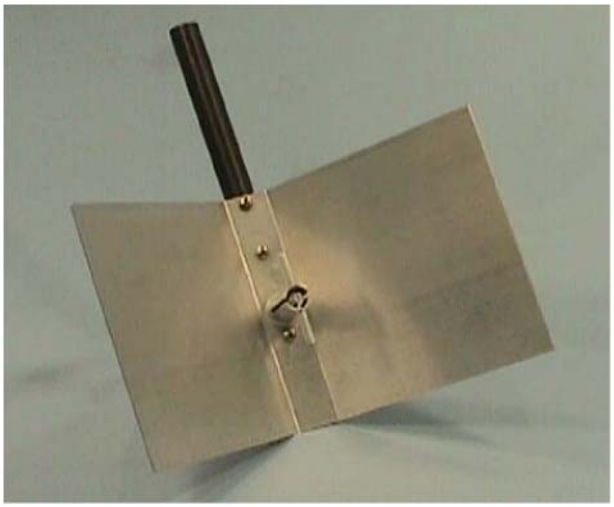
Digital Receiver Technology, Inc.

DRT9118



DESCRIPTION

Corner Reflector Antenna

The DRT9118 is a high frequency corner reflector antenna and is useful for many applications including surveillance work, PCS, LAN/WAN and other high frequency applications. Its unique design features allow the antenna to overcome many of the problems normally associated with higher frequency systems.

The corner reflectors utilize a half-wavelength element configuration. A unique balun-fed design provides high efficiency radiation without skewing of the radiation pattern. The resultant performance provides excellent bandwidth, gain and match over the frequency range.

These antennas are very small in design and appearance. The connector mechanism exits at the rear of the antenna, allowing easy installation. The mounting bracket (supplied) allows both horizontal and vertical mounting of the antenna. Surface mount can also be accommodated. Each reflector panel measures 5" x 7", providing very low aperture and windloading.

The reflectors are made of aluminum and irradiated for weather protection. The radiating elements are weather protected within an ABS radome. This maintains integrity of the antenna without sacrificing looks or windloading.

DRT9118
Corner Reflector Antenna
Specifications

Electrical

Frequency:	1.7 GHz – 2.0 GHz
Gain:	12 dBi, nominal
Bandwidth @ 2:1 SWR:	300 MHz
VSWR:	1.4 typical (average)
Maximum Power:	100 W
E Plane Beamwidth:	50°
H Plane Beamwidth:	40°
Impedance:	50 Ohms
Front-to-Back ratio:	22 dB
Lightning Protection:	Elements at DC Ground
Max. Wind Velocity:	100 MPH
Connector:	Type N male; SMA male adaptor included

Mechanical

Size:	
Length:	27.94 cm (11”)
Height:	17.78 cm (7”)
Width:	15.24 cm (6”)
Weight:	0.45 kg (1 lb.)

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