



DF-1071 DIRECTION FINDING ANTENNA TECHNICAL PARAMETERS

Frequency range Band 1 :100-350 MHz;

Band 2: 350-1000 MHz

Input Impedance 50 Ω

Output Cables RG 58 cable

Polarization Vertical

DF connectors 10*BNC male

Connector type BNC-type male

VSWR 3:1

Input voltage 15 \pm 1 V DC

Input current < 150 mA

Power consumption <2.25 W

OP1dB > 11 dBm

OP2dB >31 dBm

Length 2.17 m

Weight 15 Kg

Colour RAL 6011



PRODUCT DESCRIPTION:

The DF-1071 direction-finding antenna covers a frequency range from 100 MHz to 1 GHz. The integrated active tracking antenna, operating up to 1 GHz, provides high-sensitivity omnidirectional signal, coaxial with the DF antenna, without interfering with the signal. Full-size elements across all bands provide excellent DF sensitivity. Ultimate angular resolution for strong signals is below 1-2° across most of the frequency range. Dipole elements provide good cross-polarization rejection and reasonable performance for signals arriving up to 15° above or below the horizon. The integrated tracking antenna consists of two bands mounted on the DF antenna. These are amplified at the top of the cable and passively coupled via a single output connector to provide continuous coverage from 100 MHz to 1 GHz. This DF antenna is designed for use with a 2-channel phase-sensitive receiver and correlative algorithm. In the DF system, switching between the two antenna bands (VHF and UHF arrays) is done using an RF switch, so the SDR can be connected to either array without manual cable changes.



