

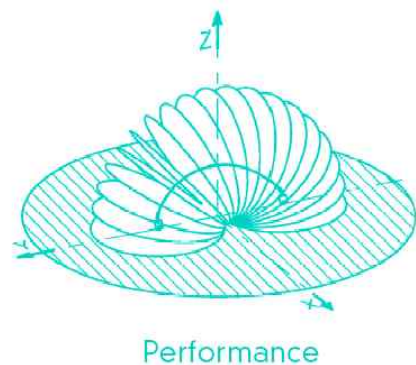
HF Half Loop Antenna with Ground Mounting Kit 2-30 MHz

Type 3160-99
6109-3Z

The 3160-99 with ground mount is an HF (2-30MHz) 125W half-loop antenna mounted on a ground support providing NVIS capability in a compact footprint. The HF half-loop provides the capability to allow seamless communications at ranges from 0 to 1600km, eliminating the skip zone found in other antennas. Its radiation pattern is nearly hemispherical when fitted on the ground support, assisted by the built in ground plane. Providing a fast digital tune and a wideband reception, it can potentially handshake with any radio operating in fixed frequency (FF), frequency hopping (FH) and Automatic Link Establishment (ALE). It is Stanag 444, FED STD 1045 and MIL STD 188-141A and B compliant. Producing a vertically and horizontally polarised signal, it replaces vertical and bend whips, inverted vee or dipole antennas using ground wave and ionospheric waves at short, medium (NVIS) and long range. Its high frequency selectivity improves the quality in signal-to-noise ratio, allows reception near high voltage power lines, and reduces spurious transmission. Lightweight, easy to install and dismantled, it can be quickly assembled by two users and operated remotely from the radio installation.



Electrical Specification	
Frequency Range	2 - 30 MHz
Power Rating	125 W Average
Bandwidth	3.5 kHz
Input Impedance	50 Ω
VSWR	2.5:1
Channel Switching	5 ms after synchro Immediate in wideband RX
Gain on conductive plane	> - 15dBi @3.5 MHz > - 3dBi @ 30 MHz
Power Supply	12 – 32 V negative grounded
Consumption	TX: 25 W RX Scan: 8 W
Temperature Range	-40°C to +70°C
Mechanical Specification	
Dimensions Erected (cms)	200 H x 169 D x 357 W
Stowed Dimensions, Mount Only (cms)	40 H x 120 D X 50 W
Weight	9kg (antenna) 4kg (remote ACU) 27kg (mount)



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