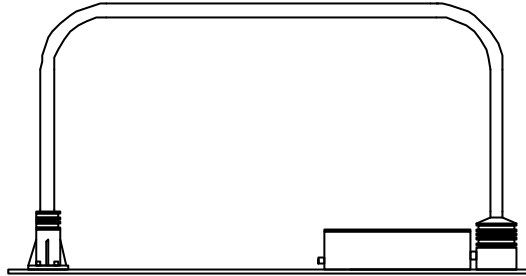




M O O N R A K E R

Type SL3-17

HF Near Vertical Incidence Skywave (NVIS) compact antenna system

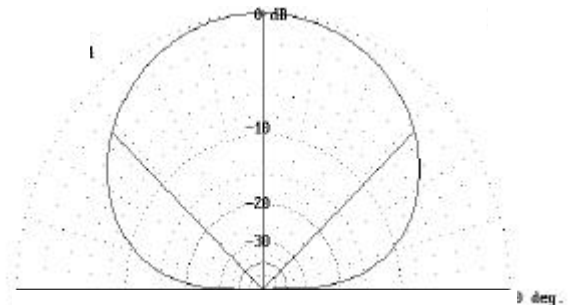


Designed to provide high performance close in HF communications for local area communications where the sky wave is not generally available due to the phenomenon of the skip zone.

The type SL3-17 system requires only low RF transmit power for full range with further reduction in power giving a localised communication zone for local fleet communications. It exhibits high angle radiation to permit communications in the 0 to 1200 km range. Tuning over the 3 to 17 MHz frequency range is automatic via the internal antenna tuning system. No transceiver interface is required. Tuning data is written to one of 500 non volatile memories allowing fast recall when making band changes making it suitable for some ALE data systems.

High performance is assured, even in environments subject to noise interference, due to the inherent filter qualities of the design, which combines automatic frequency tuning, a narrow bandwidth and excellent high angle radiation.

The system is of robust construction utilising heavy duty marine grade aluminium tubing to give a large low loss surface area for maximum radiating efficiency, and is fully marinised. Exterior metal surfaces are finished with high durability epoxy based coating, highly resistant to chemical attack, abrasion and the effects of ozone and ultra-violet radiation.



typical radiation pattern
maximum radiation at 90° elevation -3dB at 40°

SPECIFICATIONS

Frequency Range	3-17 MHz
Antenna Dimensions	1m high x 2m wide (3.3 x 6.6 ft)
Base Plate Dimensions	2000 x 400 mm (78.7 x 15.7 in) footprint
VSWR	< 2:1
Polarisation	Predominately Horizontal
Radiation Pattern	Hemispherical
Impedance	50 ohms nominal
Power Capability	150 watts PEP (50 watts CW)
DC Requirement	12 volt (Optional 24 volt) @ 900mA
Tuning Time	Initial < 2 seconds Recurrent < 10 milliseconds
Weight	Antenna only: 40kg (88 lbs); Packed 75kg (165 lbs)
Packed Size	Wooden crate: 2070 x 1100 x 460 mm (81.5 x 43.5 x 181.1 in)

Specifications subject to change 9/02

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