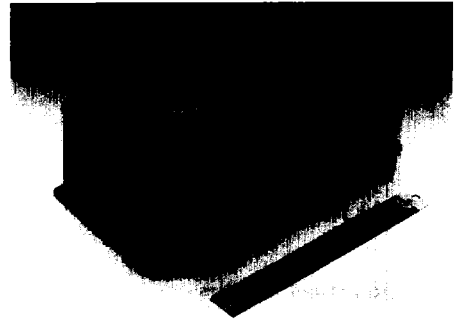


LIGHTWEIGHT RADAR TRANSPONDER**9.2 TO 9.4 GHz****FEATURES**

- ◆ **Compact/Lightweight**
- ◆ **Rugged & Waterproof**
- ◆ **12/24V Operation**
- ◆ **Simple Installation**
- ◆ **25 Km Radius**
- ◆ **Operates With Any I-Band Radar**
- ◆ **Built-In Pre-Operational Test**

**DESCRIPTION**

Designed to enhance primary radar echoes for targets with small radar cross sections, ML 3500 transponders find application in UAVs, Approach Aids, Fast Patrol Boats, Buoys, Platforms and Towed Targets.

SPECIFICATION

Receive Frequency	: 9.0 to 9.6 GHz	Transmit Power	: 5W nom. (peak)
Receive Sensitivity	: -43 dBm min.	Frequency Stability	: ± 5 MHz
Input Power	: 1kW peak (1us 1000:1)	Pulse Width	: 0.2 to 1.0us (Factory Set)
Interrogate Pulse Width	: 0.15 to 1.5 us	Duty Cycle	: 1% max.
Transmit Frequency	: 9.2 to 9.4 GHz (Factory Set)	Power Supply	: +12/+24V d.c. 10W

MECHANICAL CHARACTERISTICS

RF Connector	:	TNC Female
DC Connector	:	Amphenol 62GB
Size	:	120 x 170 x 55mm (Excluding connectors)
Weight	:	500g

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature Range	:	-20° to +50°C
Storage Temperature Range	:	-40°C to +85°C

OPERATION

The Transponder is designed for simple installation and operation, requiring connection only to a d.c. supply and a suitable antenna.

When used with radars with tuneable receivers or dedicated beacon channels, the Transponder transmit frequency can be selected to be offset from the radar frequency, allowing unwanted clutter to be removed.

The ML 3500 incorporates a built-in pre-launch operational test facility. When illuminated by the interrogating radar prior to launch the transponder produces a delayed response pulse providing a simulated response at approximately 8 Km range.

All specifications are typical and subject to change without notice

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