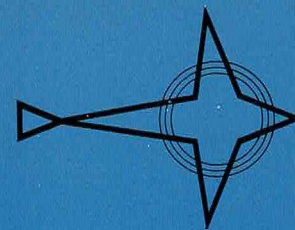


antenna & static discharger design, measurement & advisory services



including:

Antenna siting studies and model polar diagram measurements

Special purpose and 'built-in' antenna design and development

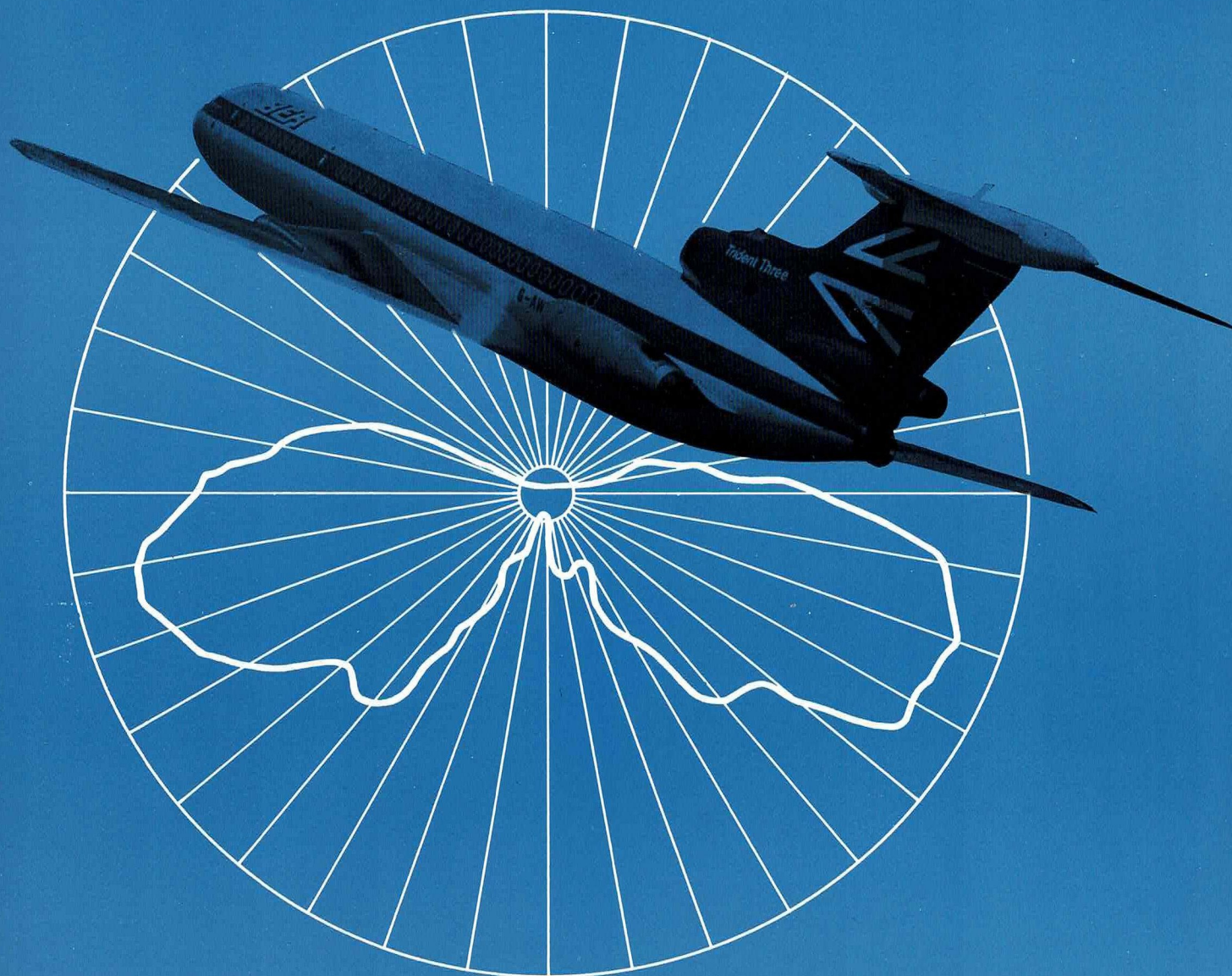
In-flight polar diagram measurements

VSWR and impedance measurements

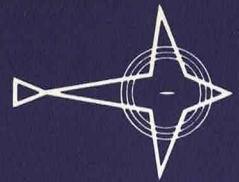
Environmental testing

Static discharger siting studies

and a complete systems advisory service



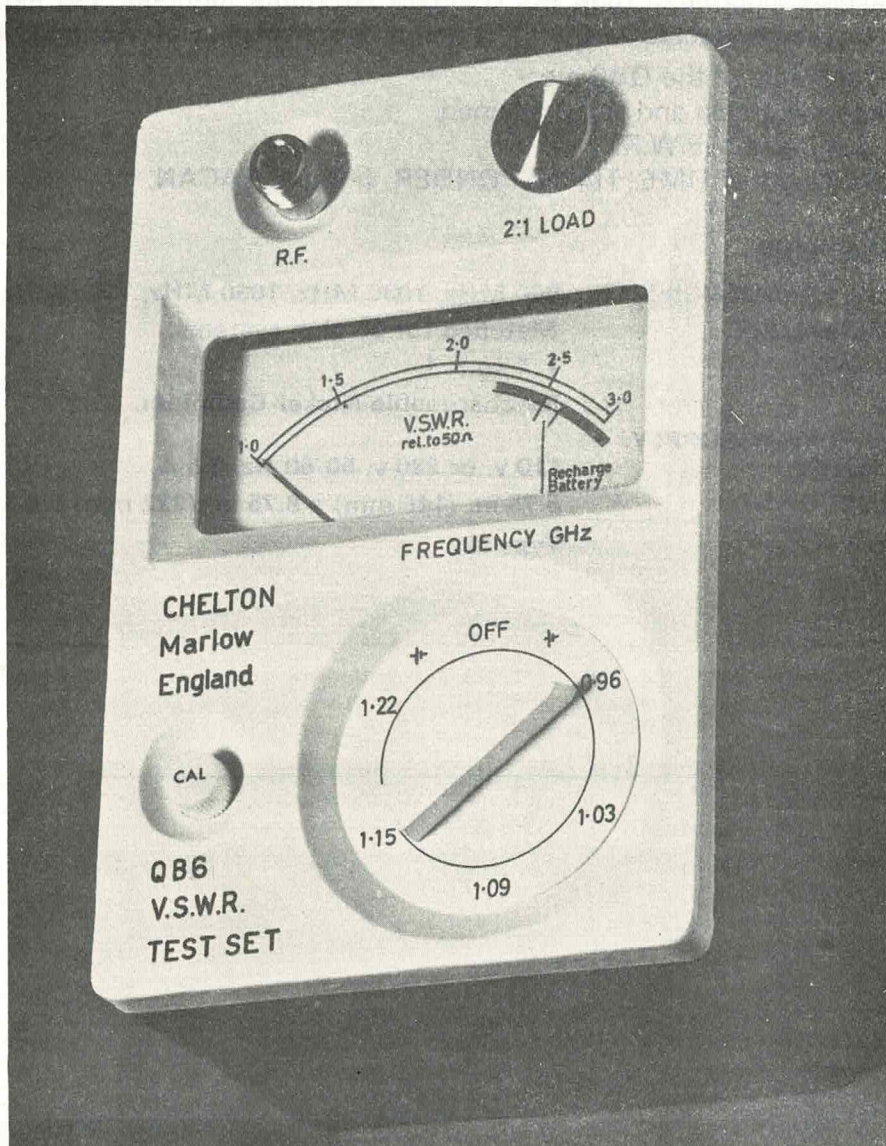
CHELTON (ELECTROSTATICS) LIMITED



ADVANCE DATA

ADVANCE DATA

L-BAND V.S.W.R. TEST SET TYPE QB6



Intended primarily for measuring aircraft antenna installations, the QB6 provides a fast and accurate method of checking V.S.W.R.'s both on the aircraft and in the antenna workshop.

CHELTON (ELECTROSTATICS) LIMITED
MARLOW BUCKINGHAMSHIRE SL7 1LR ENGLAND
Telephone: (Marlow) 062 84 72072 Telex: 849363

Associate Member of the SBAC

DGOA (DEF-STAN 05-21) and CAA Design and Inspection Approved

QB6
Oct. 1973

ADVANCE DATA

ADVANCE DATA

**L-BAND
V.S.W.R. TEST SET
TYPE QB6**

The QB6 comprises a voltage controlled oscillator feeding into an r.f. bridge circuit. After checking calibration with the standard mismatch provided, the antenna installation under test is connected to the QB6 and a direct reading of V.S.W.R. is obtained.

Important features of the QB6 are:-

- Completely portable and self contained.
- Direct reading in V.S.W.R.
- Frequencies cover DME, TRANSPONDER, IFF and TACAN.

SPECIFICATION

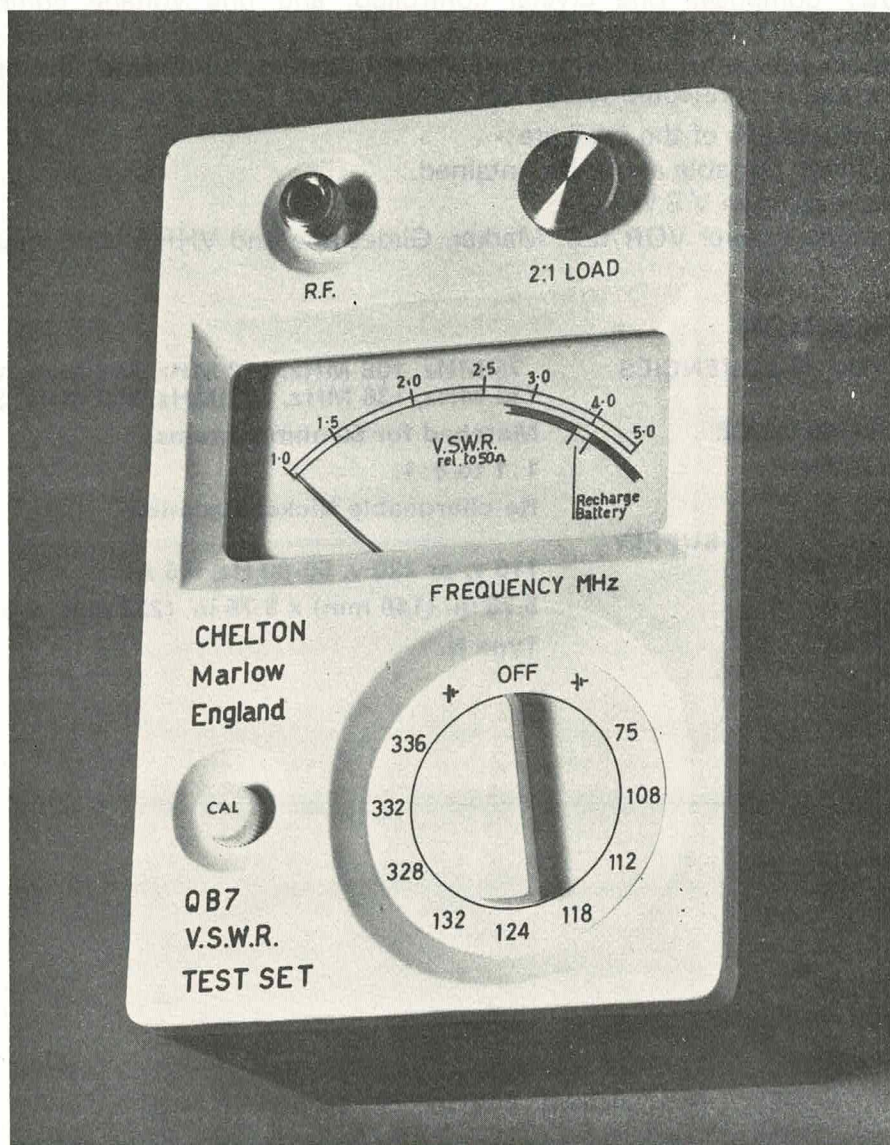
OSCILLATOR FREQUENCIES	960 MHz, 1030 MHz, 1090 MHz, 1150 MHz, 1220 MHz.
BRIDGE IMPEDANCE	Matched for 50 ohm systems.
V.S.W.R. RANGE	1:1 to 3:1
BATTERIES	Re-chargeable Nickel-Cadmium.
RECHARGE POWER SUPPLY REQUIREMENTS	110 v. or 220 v. 50-60 Hz, 0.5 A.
DIMENSIONS	5.75 in. (146 mm) x 8.75 in. (222 mm) x 4.25 in. (108 mm).
CONNECTOR	Type N.



ADVANCE DATA

ADVANCE DATA

V.S.W.R. TEST SET TYPE QB7



Intended primarily for measuring aircraft antenna installations, the QB7 provides a fast and accurate method of checking V.S.W.R.'s both on the aircraft and in the antenna workshop.

CHELTON (ELECTROSTATICS) LIMITED
MARLOW BUCKINGHAMSHIRE SL7 1LR ENGLAND
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QB7
Oct. 1973

ADVANCE DATA

ADVANCE DATA

V.S.W.R. TEST SET TYPE QB7

The QB7 comprises one crystal controlled, and one voltage controlled oscillator feeding into an r.f. bridge circuit.

After checking calibration with the standard mismatch provided, the antenna installation under test is connected to the QB7 and a direct reading of V.S.W.R. is obtained.

Important features of the QB7 are:-

- Completely portable and self contained.
- Direct reading in V.S.W.R.
- Frequencies cover VOR/ILS, Marker, Glideslope and VHF Communications.

SPECIFICATION

OSCILLATOR FREQUENCIES

75 MHz, 108 MHz, 112 MHz, 118 MHz, 124 MHz,
132 MHz, 136 MHz, 328 MHz, 332 MHz, 336 MHz.

BRIDGE IMPEDANCE

Matched for 50 ohm systems.

V.S.W.R. RANGE

1:1 to 5:1.

BATTERIES

Re-chargeable Nickel-Cadmium.

RECHARGE POWER SUPPLY REQUIREMENTS

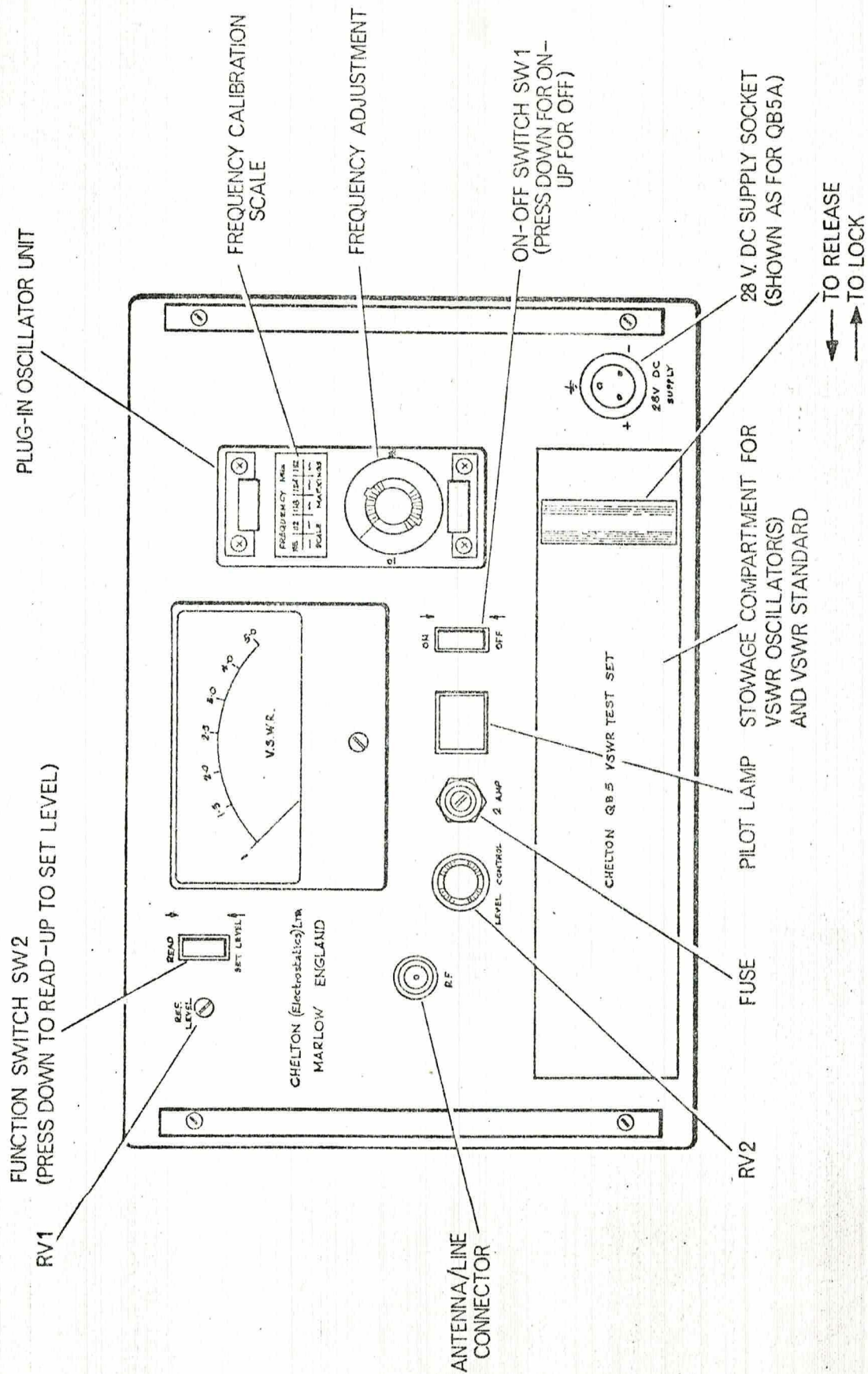
110 v. or 220 v. 50-60 Hz, 0.5 A.

DIMENSIONS

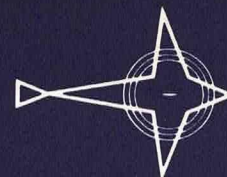
5.75 in. (146 mm) x 8.75 in. (222 mm) x 4.25 in. (108 mm).

CONNECTOR

Type N.

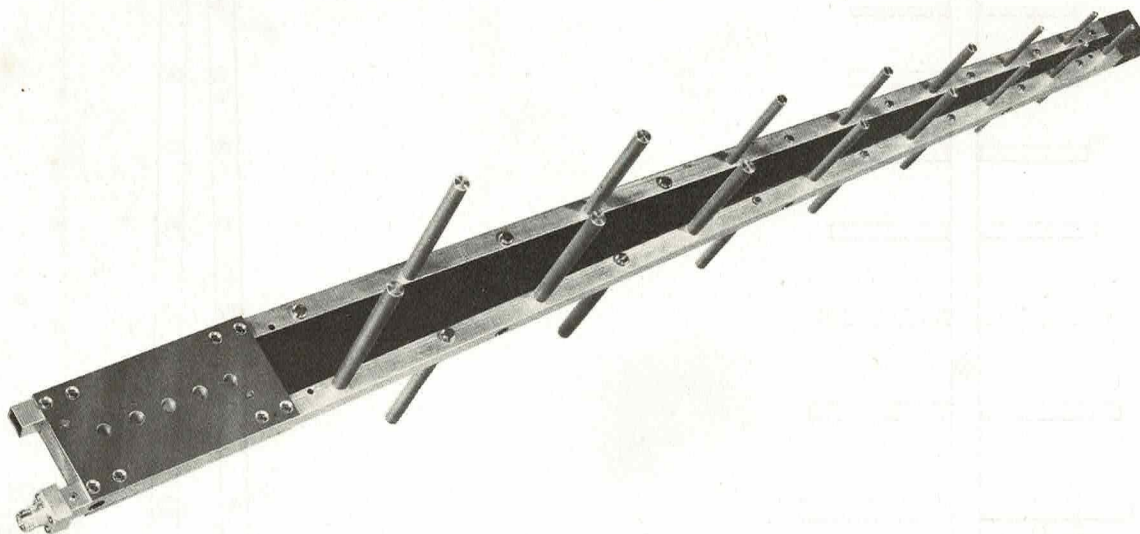


VSWR MEASURING TEST SET TYPE QB5A



UHF LOG PERIODIC ANTENNAS—TYPE GD2000

RUGGEDIZED FOR USE IN EXTREME WEATHER CONDITIONS



Manufactured to a British Broadcasting Corporation design, Type GD2000 UHF log periodic antennas, of rugged construction to withstand extreme environmental conditions, are intended for broadcasting and military ground communication applications.

The construction comprises two aluminium-alloy booms of square, box-section, each fitted with a total of fifteen logarithmically related elements along the boom length. A wedge of high density polythene, fitted between the booms provides additional rigidity, and the complete assembly is rivetted into a solid aluminium end block which forms a substantial mounting plate for fixing to a mast or tower.

RF feed point is across the tip of the antenna and is protected by a high density polythene moulding; a Type 'N' coaxial socket provides connection to the feed point via a low-loss, semi-rigid coaxial cable running inside one of the booms. Drainage holes in the two booms prevent moisture accumulation. The antenna can be supplied finished in an overall protective finish of stoved white epoxy paint.

SPECIFICATION

Frequency range:	400 — 1300 MHz
Impedance:	50 ohms (nominal)
VSWR	1.25:1 maximum (470 — 854 MHz) 1.75:1 maximum (400 — 1300 MHz)
Polarisation:	Horizontal or vertical depending upon orientation
Gain:	8 — 10 dB relative to isotropic
Connector:	Type 'N' female coaxial connector
Weight:	2.72 kg (6.00 lb.)
Installation:	See overleaf
Finish:	Normally unpainted (Type GD2000) Can be supplied finished in hard white epoxy paint (Type GD2000P3)

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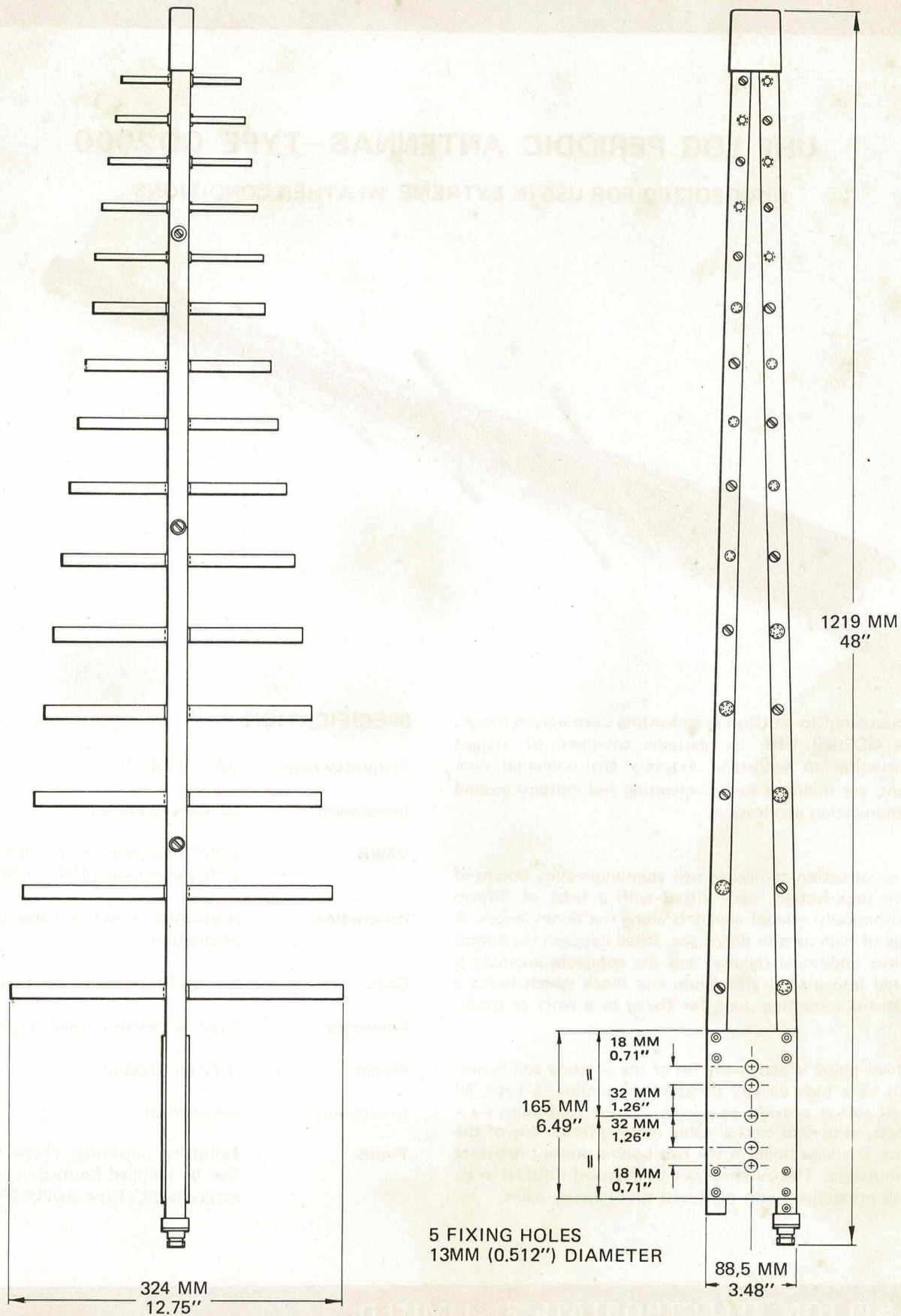
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DATA SHEET

LOG PERIODIC
ANTENNA

UHF LOG PERIODIC ANTENNAS — TYPE GD2000



NOTE: ALL DIMENSION ARE NOMINAL