Marconi H.F Drive Assemblies

Four Spot-frequency Drive Unit Type H 1505

The H 1505 drive unit is designed to operate on four crystal-controlled spot frequencies and to be used with the manually-tuned $7\frac{1}{2}$ kW transmitters Types H 1100 and H 1102 and the 1 kW transmitter Type H 1000.

The H 1505 drive unit provides i.s.b, s.s.b, f.s.k or c.w modulation on four crystal-controlled spot frequencies in the range 2-27-5 MHz. Three different editions are available for incorporating in the transmitters Type H 1100 or H 1102, the Wideband Amplifier Type H 1000 or a separate drive assembly known as the Type H 1620. The H 1000 or H 1100 series transmitter provides h.t and l.t supplies when the drive unit is incorporated.

DATA SUMMARY

Services: i.s.b, s.s.b, f.s.k (F1 and F6), c.w. Frequency range: 2-27.5 MHz.

Frequency tolerances: 15 parts in 10⁴ from 10°C to 40°C or 2 parts in 10⁴ when fitted with ovens.

Output level: 0.75 W, 0.5 W and 10 mW editions. (75 Ω impedance.)

Intermodulation products: Better than —46 dB for standard two-tone test.

A.F input levels: -20 to +10 dBm into 600Ω .

A.F bandwidth: Up to 3 KHz or 6 KHz (nominal) in each sideband, depending on edition.

Supplies required:

+300 V, 150 mA stabilized;

+150 V, 40 mA stabilized;

-150 V, 40 mA stabilized;

+50 V, 40 mA stabilized; 6.3 V a.c, 9 A stabilized.

Keying input: ± 6 V to ± 80 V into 2000 Ω ; -9 V to -80 V single current.

Frequency shift:

(a) from ± 70 Hz to ± 500 Hz, centred on either 2 kHz or 4 kHz in one (normally the lower) sideband.

(b) On diplex, ± 300 Hz or ± 600 Hz total centred on 2 kHz or 4 kHz.

Keying Speed:

200 baud maximum on c.w or f.s.k.

Spot-frequency Drive Assembly Type H 1620

The H 1620 drive assembly is a cabinet containing one or two drive units Type H 1505 complete with their own power supplies and audio and r.f patching facilities.

Separate outlets of the two drive units can be combined to provide a simultaneous two-frequency drive, suitable for application to the 1 kW Wideband Amplifier Type H 1000.

DATA SUMMARY

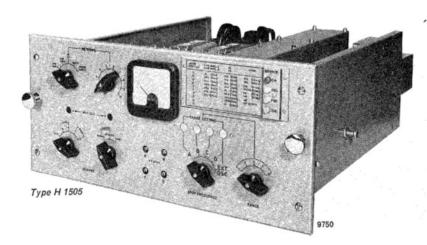
As spot-frequency drive unit Type H 1505.

Power supplies: 200-250 V, 50 Hz a.c.

Power consumption: 270 W.

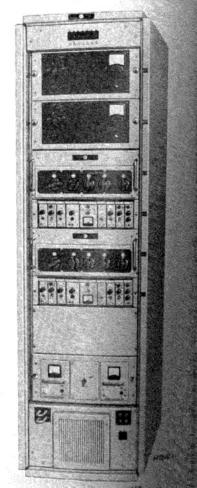
Dimensions:

Height 6 ft $10\frac{1}{4}$ in. (210 cm) Width $23\frac{1}{4}$ in. (59 cm) Depth 2 ft $4\frac{3}{8}$ in. (72 cm)



Six Spot-frequency Drive Unit Type H 1509

This drive unit is designed to operate on six crystal-controlled spot frequencies and to be used with manual and self-tuned transmitters. The drive is also suitable for use with wideband transmitters such as the Type H 1000 described on page 237. Up to four drive units Type H 1509 can be housed in Drive Assembly H 1609 (see page 236).



Synthesizer Drive Type H 1602

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