

Jaybeam Limited

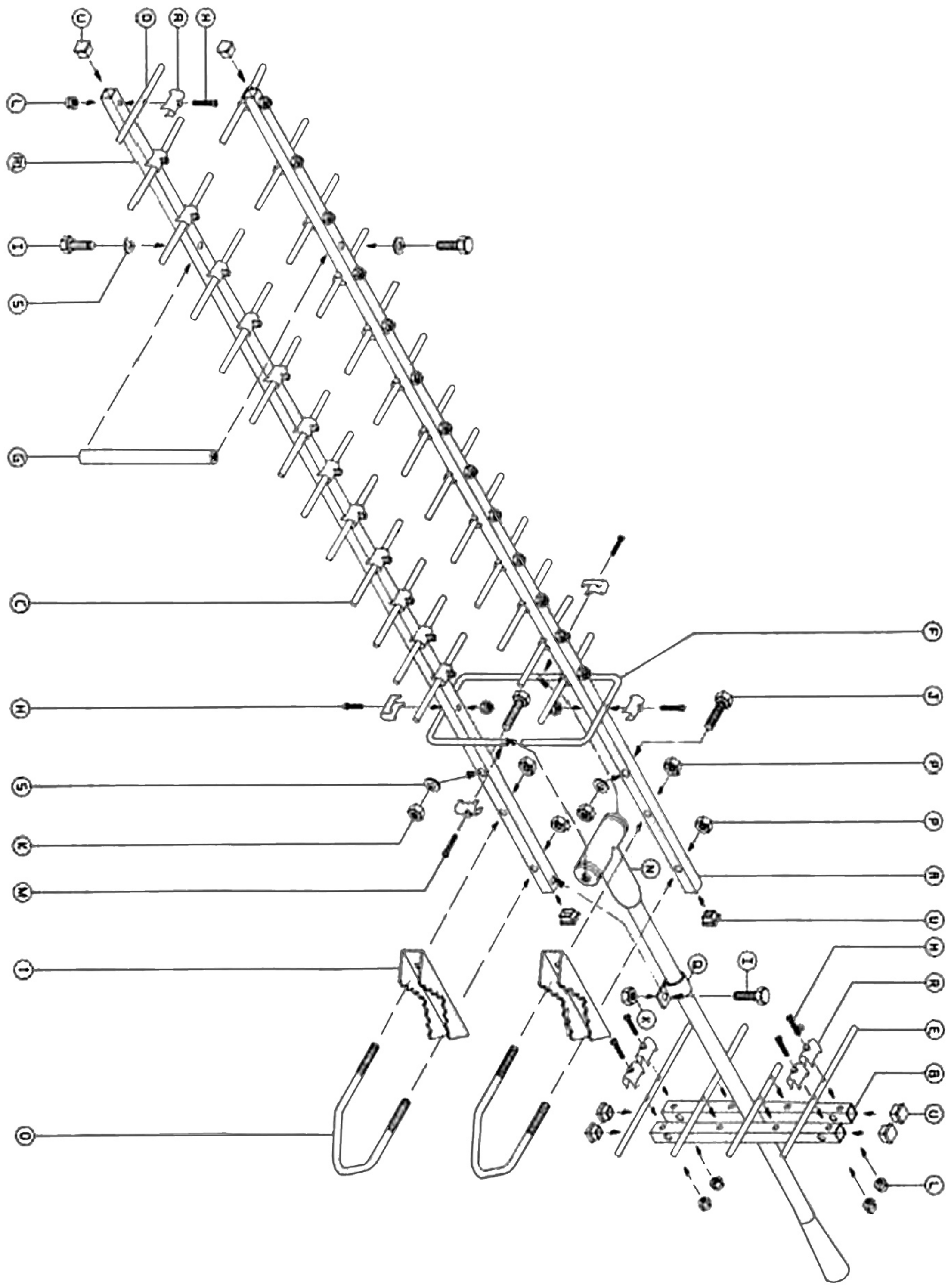
**Antennas
& Electronics Division**

**D15/1296
Assembly Instructions**

Assembly Instructions

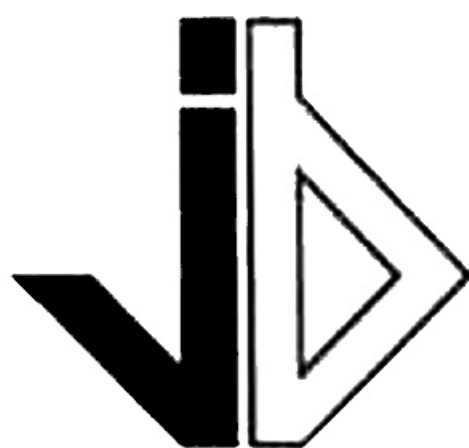
Important: These instructions must be followed in sequence

1. Take the two antenna booms (A and A1), and fit the two 9 cm director elements (D) to the first holes in each boom (1.6 cm from front end of boom).
2. Fit the 9.5 cm directors (C)(24 in all), to the remaining twelve consecutive holes using 1" x 6 BA screws (H) with 6 BA lock nuts (L).
3. Attach spacer bar (G) between both booms and fix with 7/8" x 2 BA screws (I) and 2 BA shakeproof washers (S), elements innermost, in the 5 mm hole, 4th from the front of the booms.
4. Fit the slot radiating element (F) over the two booms and fix by means of 1" x 6 BA screws (H) and 1" x 6 BA locknuts (L), into the holes following the director chain (15th from front of booms).
5. Take moulded insulator (N) and fit it with the 6 BA x 1/2" cheesehead screws (M) to the centre of the slot (F) with the cable entry to the rear.
6. Fit the reflector booms (B) to either side of the antenna booms by means of 1 1/4" x 2 BA screws (J) together with 2 BA shakeproof washer (S) and 2 BA full nut (K). Ensure cable is trapped between both of the booms.
7. Attach 11.5 cm reflector elements (E) with 1" x 6 BA screws (H) to the reflector booms with elements facing slot (F).
8. Attach cable to bottom boom (A1) by means of P-Clip (Q) with 7/8" x 2 BA aluminium screw (I), 2 BA full nut (K) and 2 BA shakeproof washer (S).
9. Fix V Bolts (O) to booms with bridge pressing (T) to fit the mast with 1/4" whit. full nuts (P).
10. The completed antenna can then be fitted to any mast and fed via the 50 ohm 'N' type termination.



Packing List

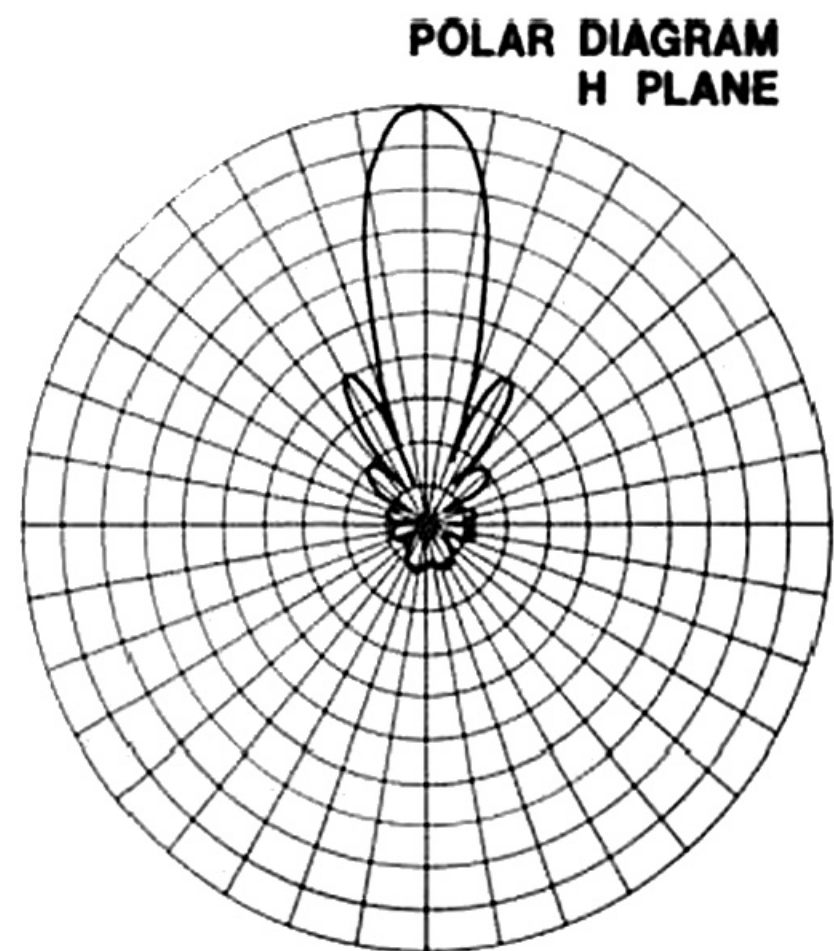
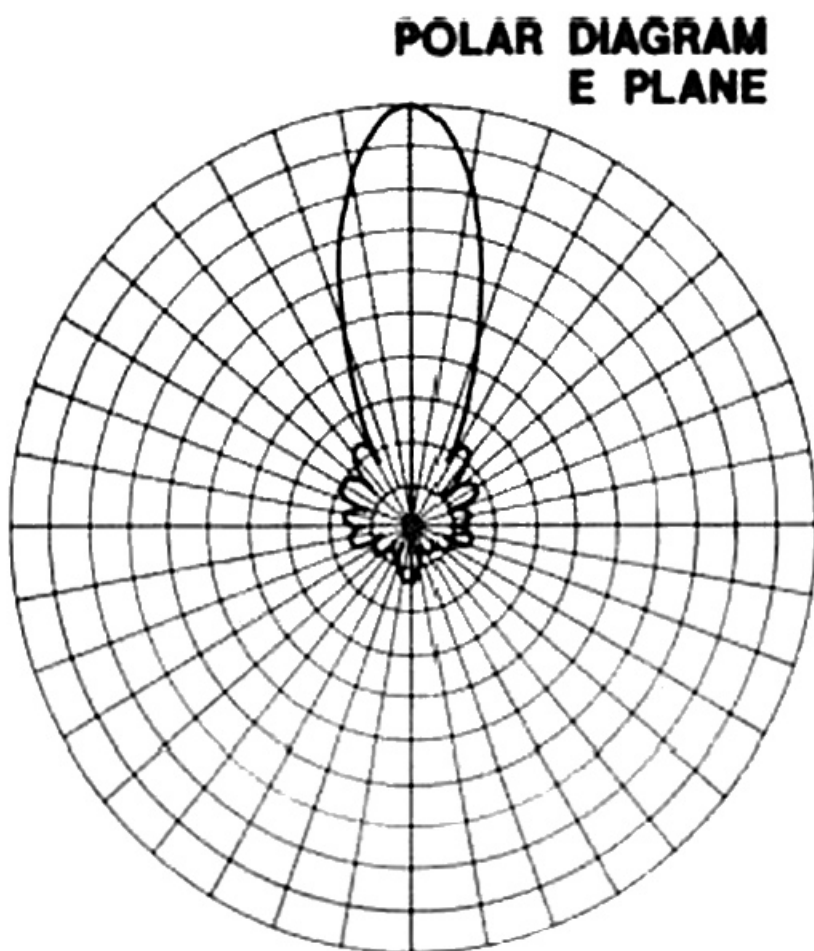
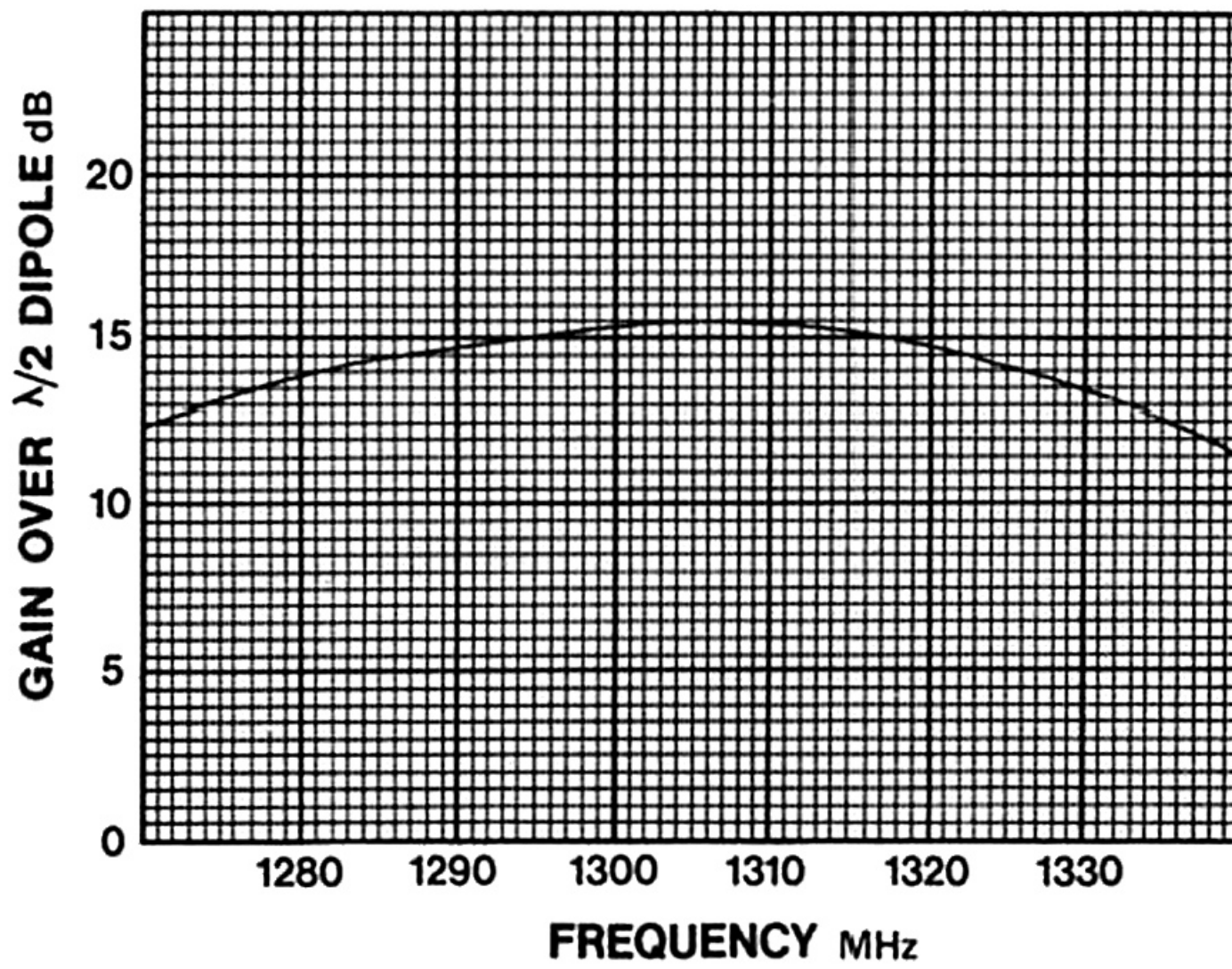
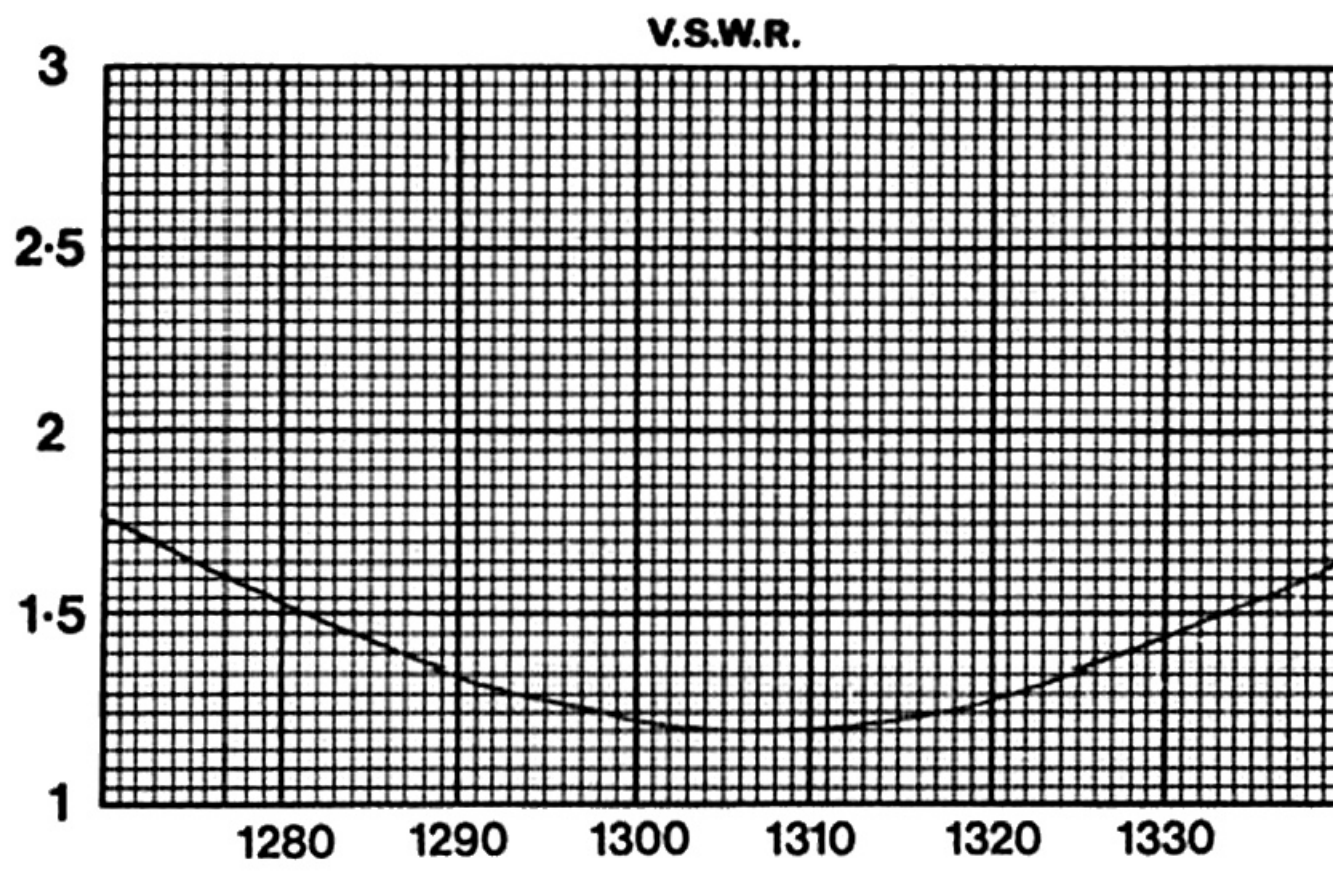
Item	Description	Quantity
A	12 mm x 12 mm boom 87 cm long	1
A1	12 mm x 12 mm boom 87 cm long (with extra hole)	1
B	12 mm x 12 mm reflector booms 14.6 cm long	2
C	9.5 cm director elements with castings	24
D	9.0 cm director elements with castings	2
E	11.5 cm reflector element	4
F	Slot radiating element	1
G	Spacer bar (3/8" x 10 cms)	1
H	1" x 6 BA screw (cad plated)	38
I	7/8" x 2 BA aluminium screw (Hx/Hd)	3
J	1 3/4" x 2 BA aluminium screw (Hx/Hd)	2
K	2 BA full nut	3
L	6 BA lock nut (cad plated)	38
M	6 BA x 1/2" N/P Cheese Head screw	2
N	Moulded insulator with coaxial tail and 'N' connector	1
O	V Bolts	2
P	1/4" whit. full nuts	4
Q	P-Clip	1
R	Element castings (fitted to elements)	38
S	2 BA shakeproof washers	4
T	Bridge Pressings	2
U	End Plugs	8



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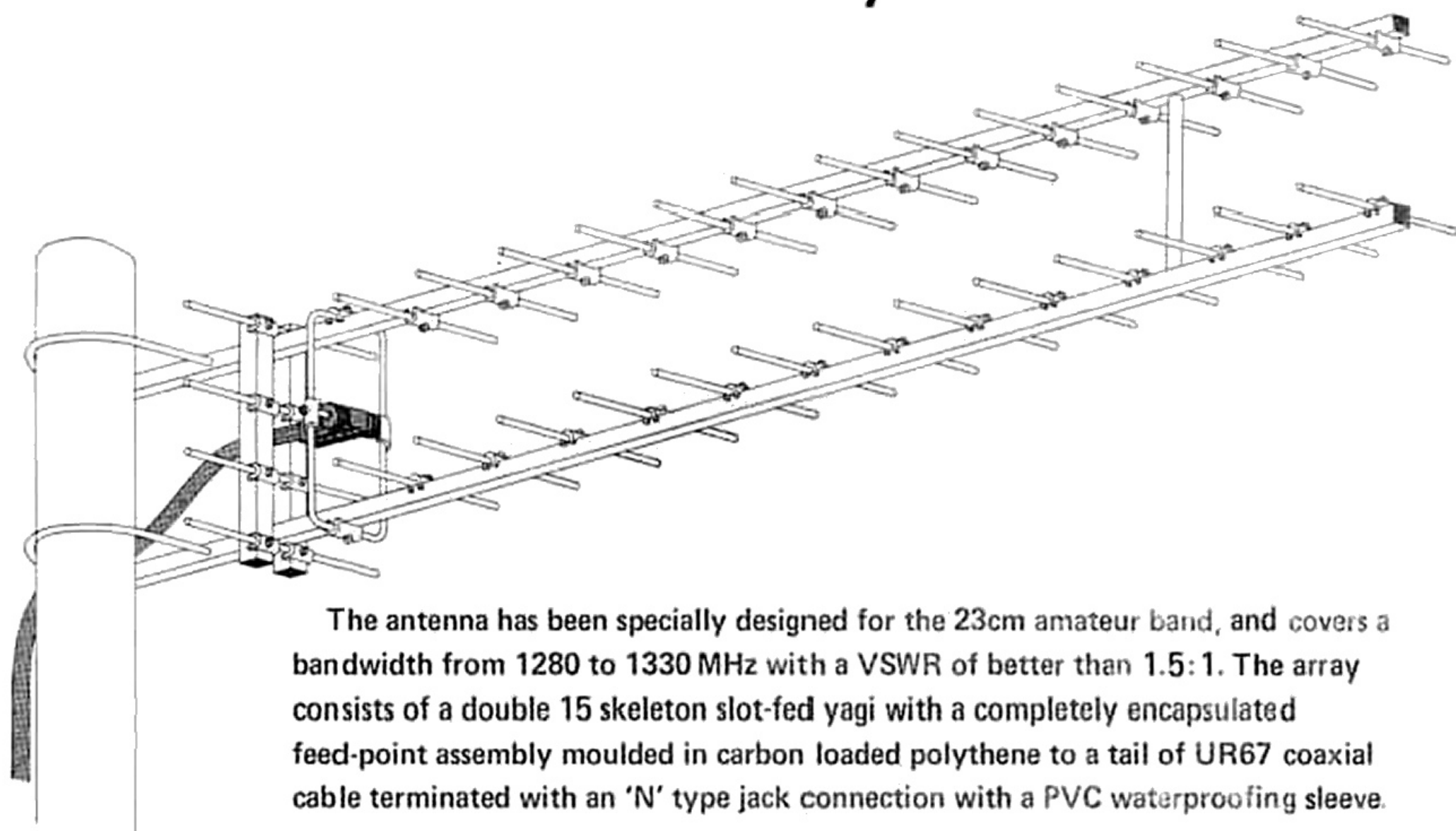
Tel.(0604)46611 Telex 311101



amateur antennas



23cm ANTENNA TYPE D15/1296



The antenna has been specially designed for the 23cm amateur band, and covers a bandwidth from 1280 to 1330 MHz with a VSWR of better than 1.5:1. The array consists of a double 15 skeleton slot-fed yagi with a completely encapsulated feed-point assembly moulded in carbon loaded polythene to a tail of UR67 coaxial cable terminated with an 'N' type jack connection with a PVC waterproofing sleeve.

The array is supplied complete with V-bolts to fit a mast of up to 2" in diameter.

- ★ GAIN : 15dBd (17.2dBi)
- ★ IMPEDANCE : 50 OHMS
- ★ POWER RATING : 150 WATTS
- ★ LENGTH : 87 CMS
- ★ HEIGHT : 15 CMS
- ★ WEIGHT : 1.2 KGS
- ★ WIND LOADING @ 160 KM/h : 6.2 KGS
- ★ POLARISATION : LINEAR
- ★ FREQUENCY : 1280 – 1330 MHz
- ★ BEAMWIDTH : 28°
- ★ TERMINATION : 50 OHMS 'N' TYPE JACK
- ★ MOUNTING : 2 V-BOLTS TO FIT UP TO A 2" DIAMETER MAST
- ★ VSWR : <1.5:1
- ★ ELEMENTS : SOLID ALLOY ROD
- ★ INSULATOR : MOULDED CARBON LOADED POLYTHENE

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