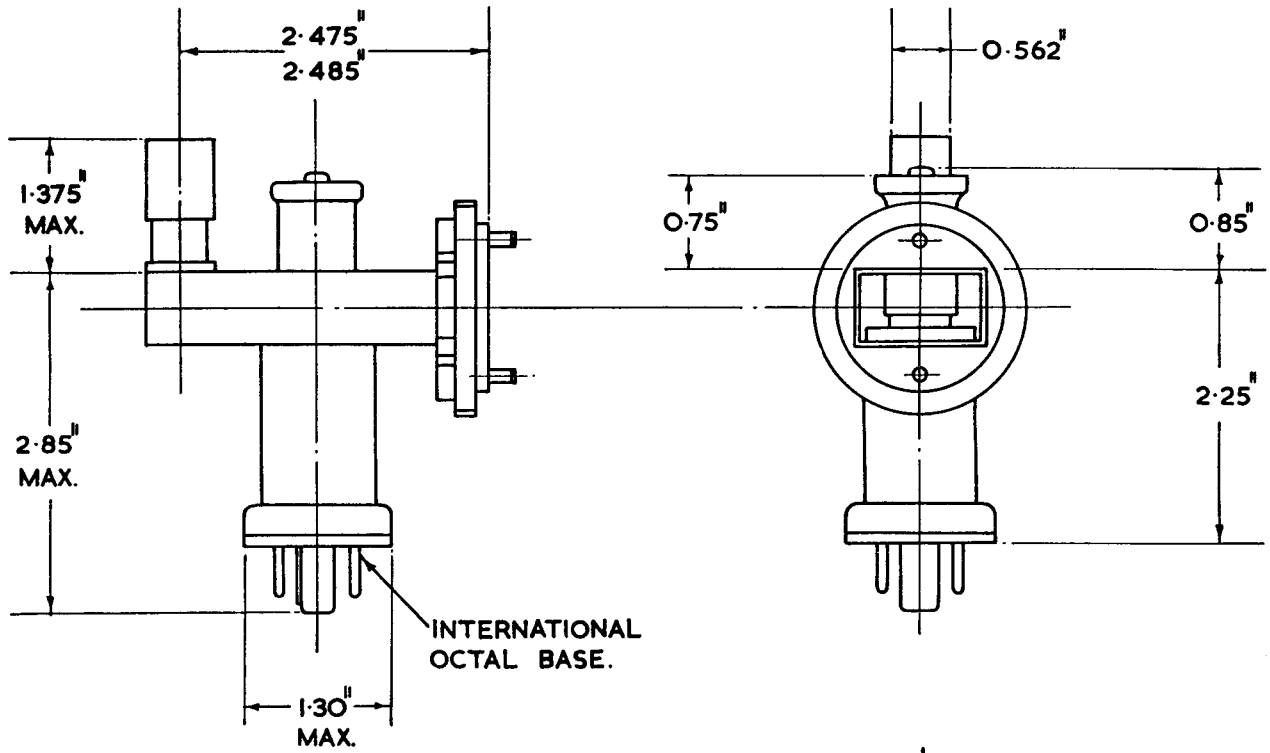
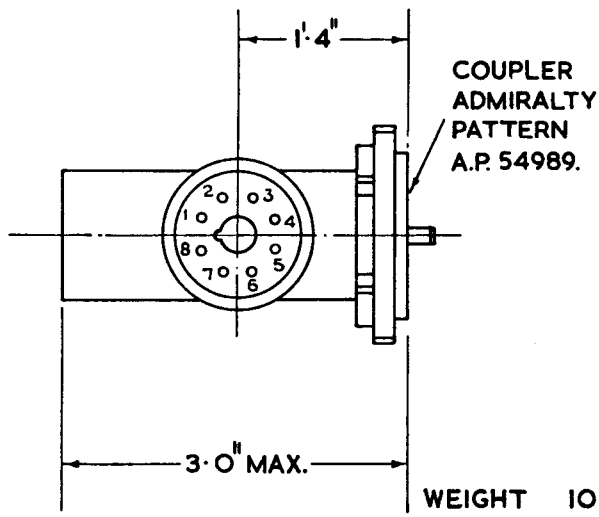
Klystron *Type K300*





PIN No.	CONNECTIONS
1.	BLANK
2.	HEATER
3.	BLANK
4.	BLANK
5.	RESONATOR
6.	BLANK
7.	HEATER & CATHODE
8.	BLANK
CAP	REFLECTOR

WEIGHT 10 oz. (284 gm.)

MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED

Head Office: Marconi House, Chelmsford, England. Telephone: Chelmsford 3221. *Telegraphic Address: Expanse, Chelmsford*

General. The K 300 klystron has been designed for use as the local oscillator in a superheterodyne receiver operating in the band 9320–9500 Mc/s (the 3 cm. band). It is for use with systems using the standard British waveguides; the internal dimensions of which are 1 in. × 0·5 in.

APPROXIMATE DATA

V_h	6·3	V
I_h	0·6	A
V_{bm}	350	V
I_{bm}	35	mA
$V_{reflector}$ (max range)	—80 to 165	V
$P_{out\ (min)}$ (a)	15	mW
f (Mechanical tuning range)	9320 to 9500	Mc/s
f (Electronic tuning range) (b)	20	Mc/s

(a) At 350 V between cathode and resonator.

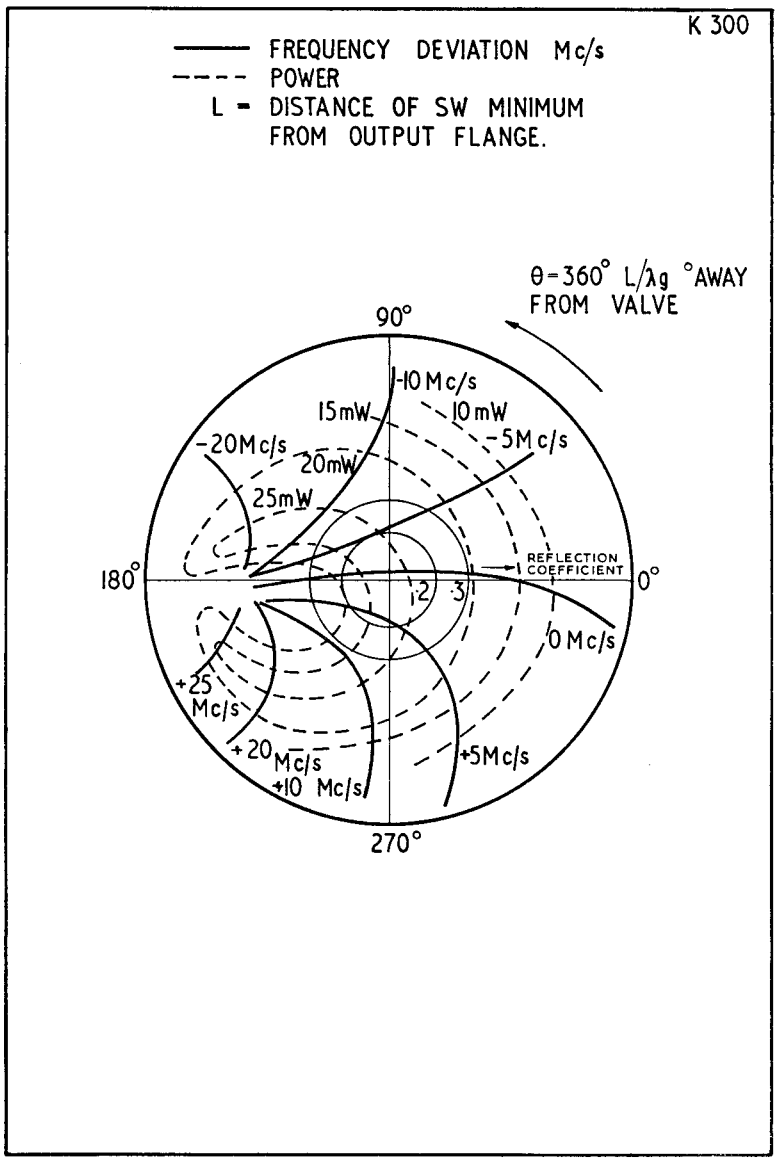
(b) The electronic tuning is obtained with a reflector voltage sweep of approximately 15 V.

NOTES

(1) Each klystron is marked with the reflector voltage at which it will oscillate and give an output power of at least 12 mW over the whole frequency band.

(2) At no time should the voltage of the reflector be allowed to become equal to or more positive than the cathode: if under AFC working there is any chance of this happening, a protective diode should be fitted at the reflector.

(3) Total impedance in the reflector to cathode circuit not to exceed 0·5 MΩ.



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