MINIATURE ULTRA SHORT WAVE TRIODE

EC53

Miniature triode for use as low power oscillator at frequencies up to 600 M.c/s.

HEATER

V_h	6.3	V
I_h	0.25	A

CAPACITANCES

c_{in}	1.3	μμF
c_{out}	0.13	μμF
c_{a-g}	1.3	μμF

CHARACTERISTICS

V_a	200	V
V_g	-3.3	V
I_a	7.5	mA
g_m	2.9	mA/V
μ	33	
r_a	11,400	Ω
g_m (V_g=0)	4.0	mA/V

OPERATING CONDITIONS AS POWER OSCILLATOR UP TO 400 Mc/s

f Mc/s	V_a V	I_a mA	I_g mA	W_{out} W	η %	Refer to circuit
110	250	14.5	5	1.3	35	A
165	250	14.5	5	1.2	33	A
210	250	12.5	3.6	0.8	26	A
285	250	12.5	3.6	0.5	16	B
335	200	12.5	3.6	0.35	14	B
400	200	12.5	3.6	0.3	12	B

NOTE: The input power is reduced at the higher frequencies in order to keep within the rated maximum anode dissipation.

LIMITING VALUES

V_a max.	250	V
W_a max.	2.5	W
I_k max.	20	mA
V_g max. (I_{g1}=+0.3μA)	-1.5	V
R_g max.	0.5	MΩ
V_{h-k}	40.0	V
R_{h-k}	20,000	Ω
Max. operating frequency	600	Mc/s

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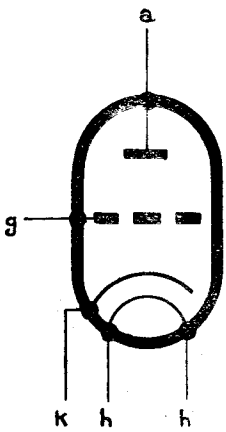
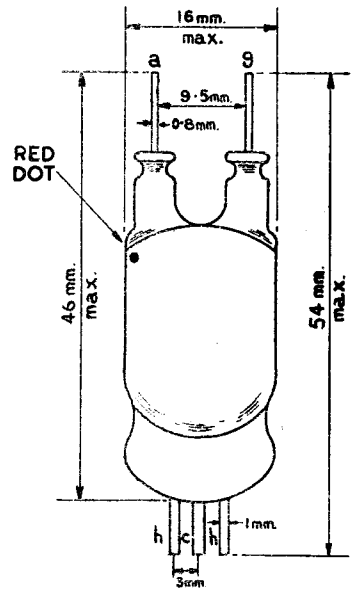
ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS.



DIMENSIONS



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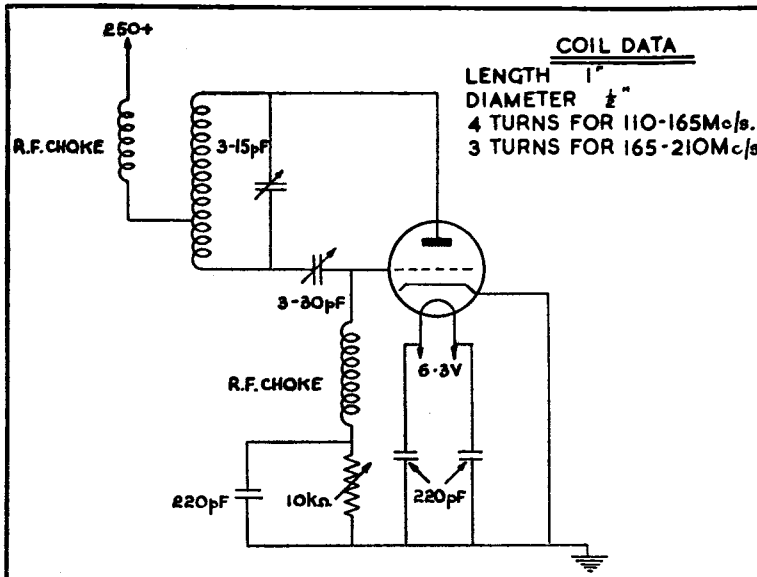
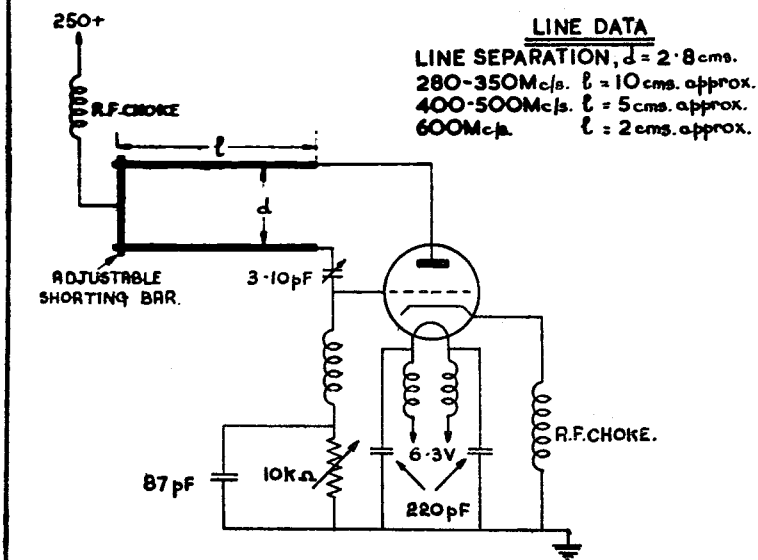


CIRCUIT "A" FOR USE AT FREQUENCIES BETWEEN 110 AND 210 Mc/s.



CIRCUIT "B" FOR USE AT FREQUENCIES OF 280Mc/s. AND ABOVE

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