

MINIATURE DIODE TRIODE

EAC91

Oscillator triode combined with a single diode
for use as a frequency changer.

HEATER

V_h	6.3	V
I_h	0.3	A

CAPACITANCES

c_{in}	1.7	$\mu\mu F$
c_{out}	0.4	$\mu\mu F$
c_{at-g}	1.6	$\mu\mu F$
c_{g-ad}	<0.1	$\mu\mu F$
c_{at-ad}	0.4	$\mu\mu F$
c_{ad-kd}	1.5	$\mu\mu F$
c_{kt-kd}	0.4	$\mu\mu F$

CHARACTERISTICS (Triode Section)

V_a	200	V
I_a	7.5	mA
V_g	-2.8	V
g_m	2.8	mA/V
μ	36	
r_a	12,800	Ω

OPERATING CONDITIONS AS U.H.F. FREQUENCY CHANGER

See circuit overleaf

Coil data -	L_1	Turns	3 $\frac{1}{2}$
		Coil diameter	10 mm.
		Coil length	7 mm.
		Dia. of wire	1 mm.
	L_2	Dust cored, to tune to intermediate frequency.	
	L_3 }	Dependent upon signal frequency.	
	L_4 }		

LIMITING VALUES

Triode Section	V_a max.	250	V
	W_a max.	2	W
	I_k max.	10	mA
	V_h-k max.	50	V
Diode Section	V_a max.	50	V
	I_a max.	5	mA
Max. Operating Frequency as Frequency Changer			
Limiting Frequency of Oscillation		300	Mc/s
		600	Mc/s



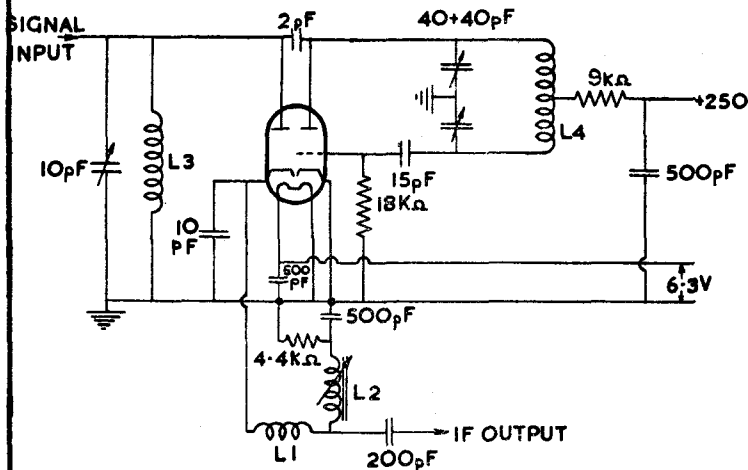
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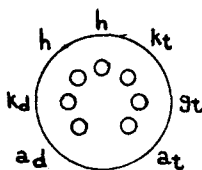
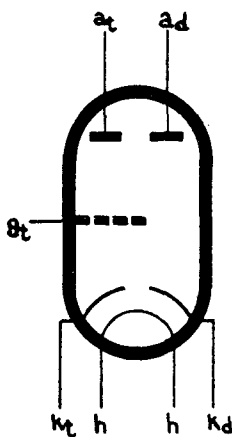
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UHF FREQUENCY CHANGER CIRCUIT FOR USE UP TO 300 Mc/s.

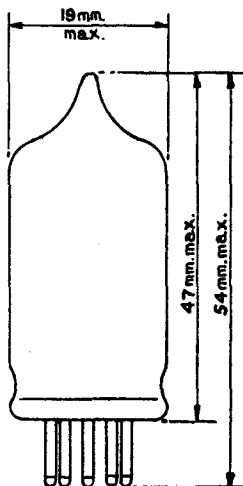
INTERMEDIATE FREQUENCY 12 TO 45 Mc/s.



ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



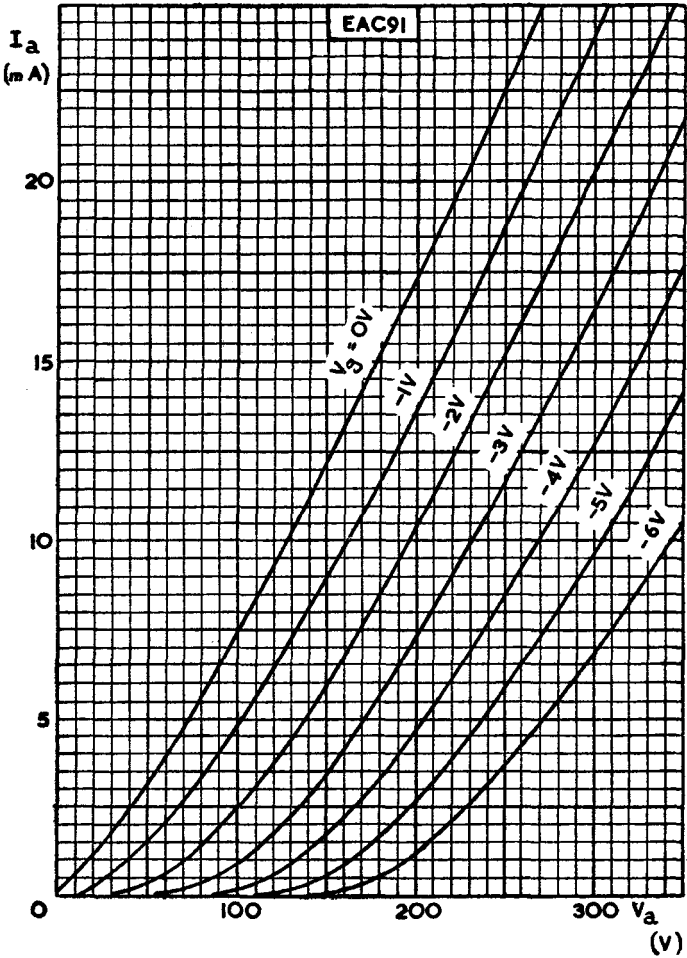
DIMENSIONS



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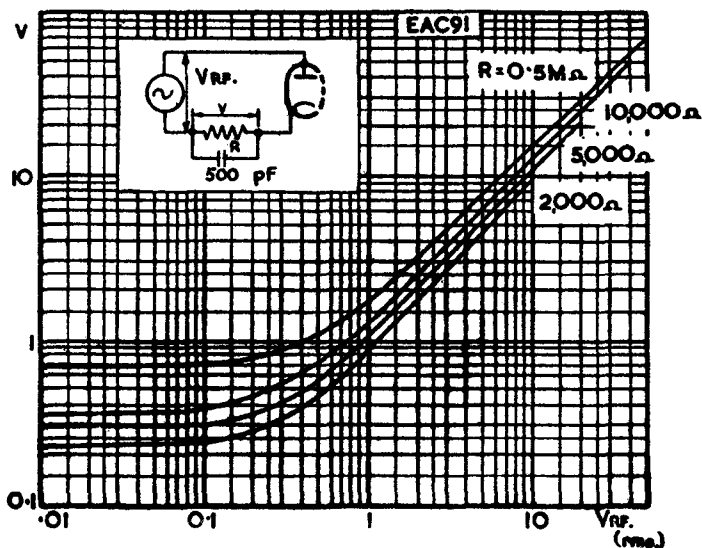
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