

OCTODE FREQUENCY CHANGER

FC2A

Octode frequency changer for use in battery super-heterodyne receivers. This valve has been specially designed for frequencies up to 19 M/cs.

FILAMENT

V_f	2.0	V
I_f	0.13	A
Bulb finish—Metallised		

CAPACITANCES

C_{g1-1}	6.6	$\mu\mu\text{F}$
C_{1n}	9.1	$\mu\mu\text{F}$
C_{out}	13.6	$\mu\mu\text{F}$
C_{g2-1}	8.5	$\mu\mu\text{F}$
C_{g1-g4}	< 0.12	$\mu\mu\text{F}$
C_{g2-g4}	< 0.35	$\mu\mu\text{F}$
C_{a-g4}	< 0.07	$\mu\mu\text{F}$

OPERATING CONDITIONS

Normal Operation

V_a	90	135	V
V_{g2}	90	135	V
V_{g3+g5}	45	45	V
I_a	0.7	0.7	mA
V_{g4}	-0.5	-0.5	V
I_{g2}	1.3	2.1	mA
I_{g3+g5}	0.6	0.7	mA
$V_{osc} \text{ (r.m.s.)}$	8.5	8.5	V
g_c	0.27	0.27	mA/V
r_a	2.0	2.5	M Ω
r_a	> 10	> 10	M Ω
$V_{g4} \text{ (for 100 : 1 reduction in } g_c)$	-12	-12	V

Short Wave Operation

V_a	135	V
V_{g2}	135	V
V_{g3+g5}	60	V
I_a	1.0	mA
V_{g4}	-1.5	V
I_{g2}	2.3	mA
I_{g3+g5}	1.0	mA
$V_{osc} \text{ (r.m.s.)}$	4.0	V
g_c	67	$\mu\text{A/V}$
r_a	1.7	M Ω

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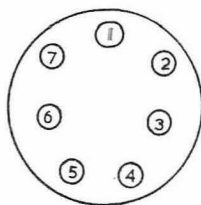
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LIMITING VALUES

V_a max.	150	V
p_a max.	0.5	W
V_{g2} max.	150	V
p_{g2} max.	0.6	W
V_{g3+g5} max.	100	V
p_{g3+g5} max.	0.4	W
I_k max.	11	mA
R_{g4-k} max.	2.5	M Ω
R_{g1-k} max.	100	k Ω

CONNECTIONS



Viewed from free end of pins

Brit. 7-Pin Base

- Pin No. 1 Oscillator Anode (g_2)
- „ 2 Oscillator Grid (g_1)
- „ 3 Screen Grids (g_3 & g_5)
- „ 4 Filament
- „ 5 Filament
- „ 6 Mettallising and (g_6)
- „ 7 Anode

Top Cap—Control Grid (g_4)

DIMENSIONS

Overall length	135 mm.
Overall diameter	46 mm.