

Mullard

OCTODE FREQUENCY CHANGER

FC2

The FC2 is an Octode frequency changer for use in battery superheterodyne receivers.

FILAMENT CHARACTERISTICS

Filament Volts $V_f = 2.0$ volts
 Filament Current $I_f = 0.1$ amp.
 Bulb Finish—Metallized

DIMENSIONS

Overall Length ... = 132 mm.
 Overall Diameter ... = 46 mm.

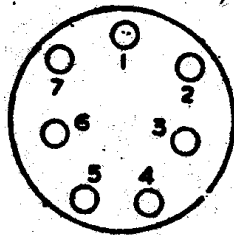
OPERATING CHARACTERISTICS

Max. Anode Voltage	$V_{a\max}$	= 150 volts
Max. Osc. Anode Voltage	$V_{g2\max}$	= 150 volts
Max. Auxiliary Grid and Screen Voltage	$V_{g3 \& 5 \max}$	= 70 volts
Normal Anode Voltage	V_{aw}	= 135 volts
Normal Osc. Anode Voltage	V_{g2w}	= 135 volts
Normal Aux. Grid and Screen Voltage	$V_{g2, 3 \& 5w}$	= 70 volts
Anode Current	I_{aw}	= 0.95 mA
Osc. Anode, Aux. Grid & Screen Current	$I_{g2, 3 \& 5w}$	= 3.75 mA
Conversion Conductance	S_{cw}	= 200 $\mu A/V$
Max. Resistance in Grid Circuit	$R_{g4\max}$	= 2.5 megohms

CAPACITIES

Anode—Control Grid	C_{ag4}	= 0.057 μF
Output	C_a	= 14.5 μF
Input	C_{g4}	= 9.9 μF
Oscillator Grid—Control Grid	C_{g1g4}	= 0.11 μF

CONNECTIONS



Viewed from free end of pins.

- Pin No. 1 Oscillator Anode (G_2)
 - " 2 Oscillator Grid (G_1)
 - " 3 Screen Grids (G_3 & 5)
 - " 4 Filament
 - " 5 Filament
 - " 6 Metallization
 - " 7 Anode
- Top Cap—Control Grid (G_4)

Grid Current

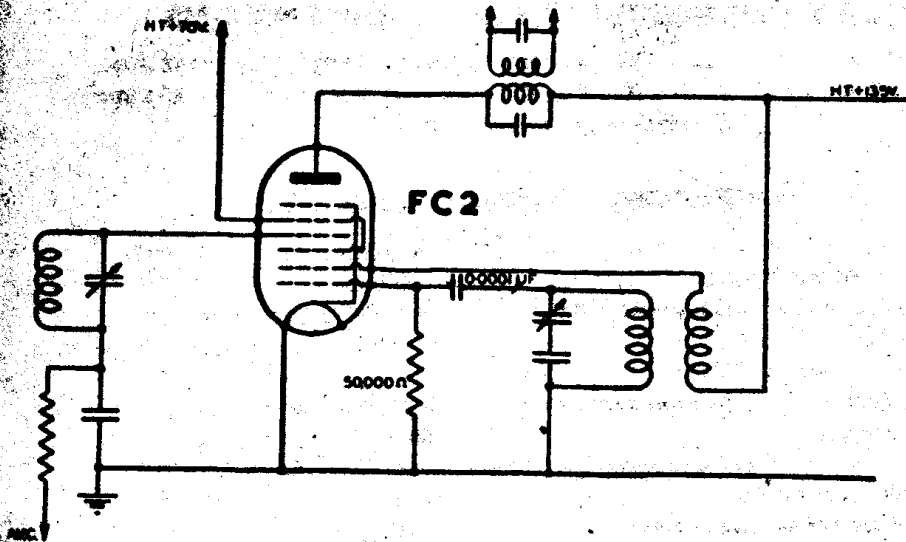
At $V_a = V_{g2} = 135$, $V_{g3 \& 5} = 70$, $V_{osc} = 13$ (peak) Grid Current (G_4) reaches a value of 1.0 μA between the grid voltage range of +1.6 to +2.5.

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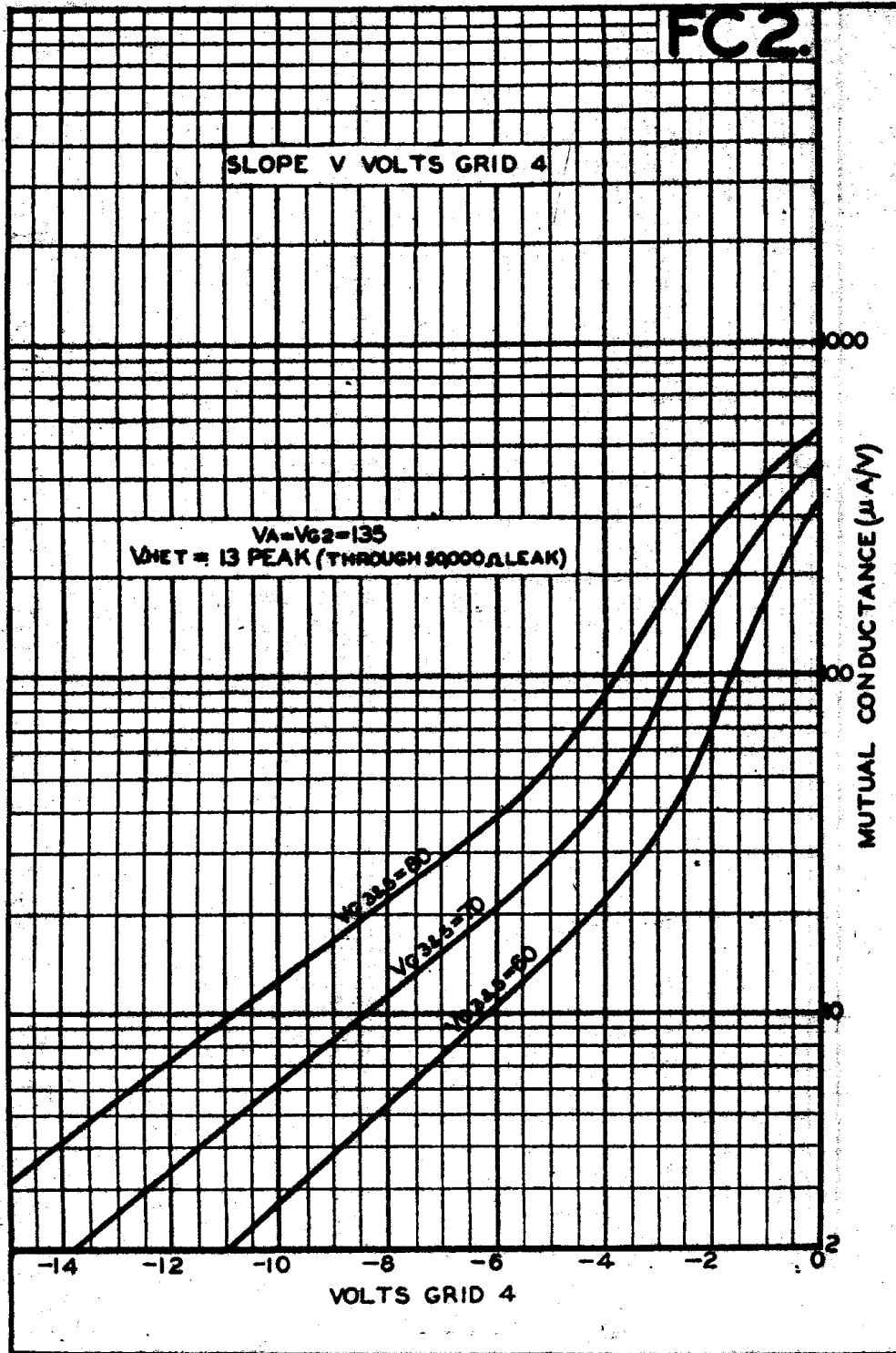
Circuit Diagram

The following circuit shows typical operating connections for the FC2.



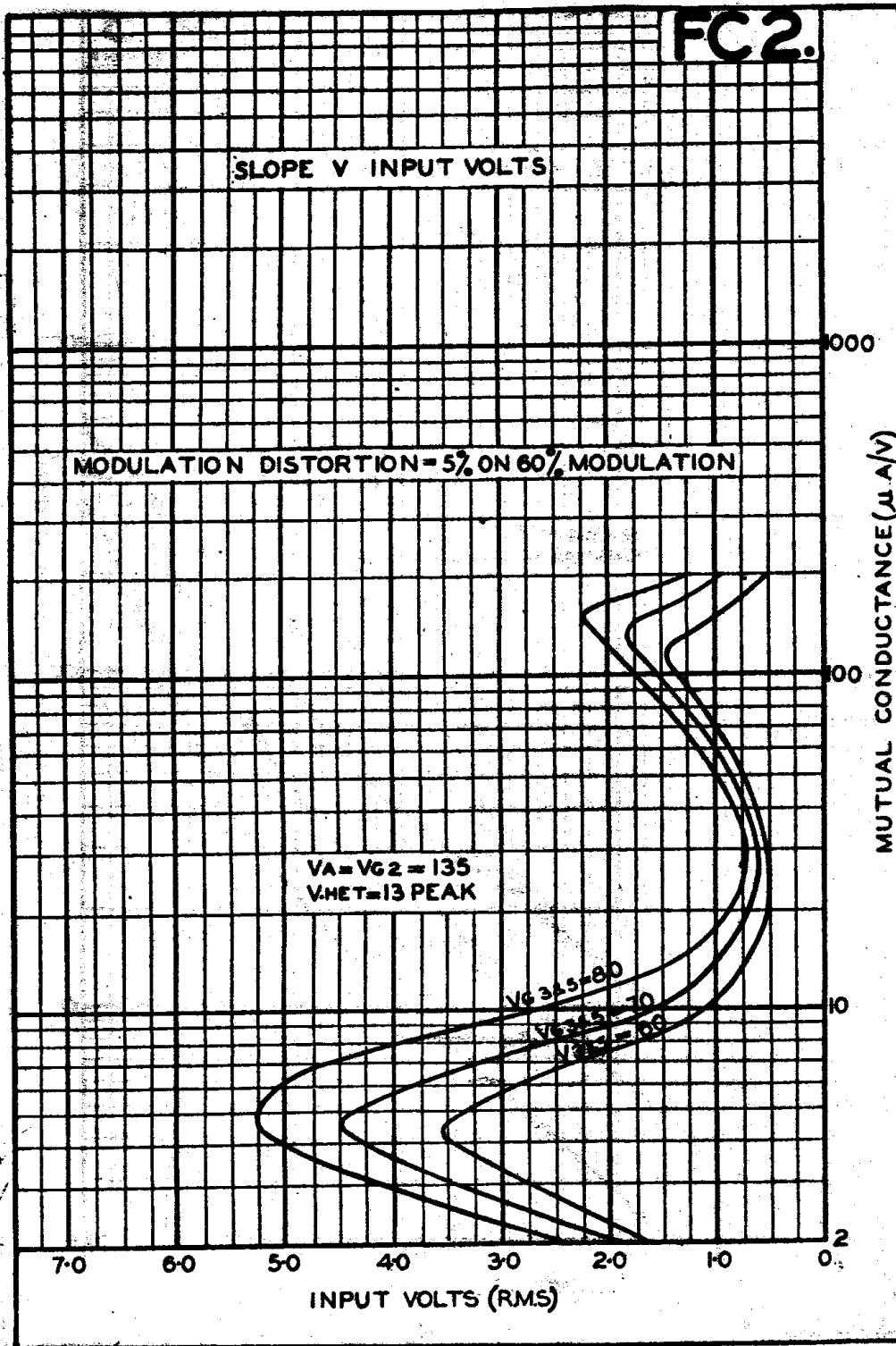
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