

6F33

SCREENED R.F. PENTODE

Indirectly heated

GENERAL

The 6.F.33 has a short cut-off Suppressor Grid characteristic which makes it particularly suitable for use in Modulator, Variable Reactance and Timing Circuits. A diode has been tied to the suppressor in order to prevent "blocking" when this grid is driven positive.

RATING

Heater Voltage (volts)	V_h	6.3
Heater Current (amps)	I_h	0.35
Maximum Anode Voltage (volts)	$V_a(\text{max})$	250
Maximum Screen Voltage (volts)	$V_{g2}(\text{max})$	250
Mutual Conductance (mA/V)	μ_m	• 4.35
Inner μ	$\mu_{g1 \text{ } g2}$	• 38
Maximum Anode Dissipation (watts)	$P_a(\text{max})$	2.5
Maximum Screen Dissipation (watts)	P_{g2}	0.8
Maximum Potential Heater/Cathode (volts DC)	$V_{h-k}(\text{max})$	100

• Taken at $V_a = 200\text{v}$; $V_{g2} = 100\text{v}$;
 $V_{g1} = -1.5\text{v}$; $V_{g3} = 0\text{v}$.

μ 1.8. $\begin{cases} V_{g2} \\ V_{g1} \end{cases}$ with I_a constant.

INTER-ELECTRODE CAPACITANCES

		a	b
Anode/Earth (μF)	C_{out}	4.6	5.6
Anode/Control Grid (μF)	C_{a-g1}	0.01	0.012
Control Grid/Earth (μF)	C_{in}	7.3	8.4
Suppressor Grid/Earth (μF)	C_{g3-E}	10.0	11.1

a Measured with Benjamin cylindrical screen type 75/832, but holder capacity balanced out.

b Including capacity of Benjamin B7G holder type 75/833 and screen type 76/832.

DIMENSIONS

Maximum Overall Length (mm)	54
Maximum Diameter (mm)	19
Maximum Seated Height (mm)	48.6
Approximate Nett Weight (ozs)	$\frac{1}{2}$
Approximate Packed Weight (ozs)	$\frac{1}{2}$

MOUNTING POSITION - Unrestricted.

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BULB Clear

BASE B.7.C



Viewed from free end of pins

CONNECTIONS

Pin 1	Control Grid	g1
Pin 2	Cathode	k
Pin 3	Heater	h
Pin 4	Heater	h
Pin 5	Anode	a
Pin 6	Suppressor Grid	g3
Pin 7	Screen Grid	g2

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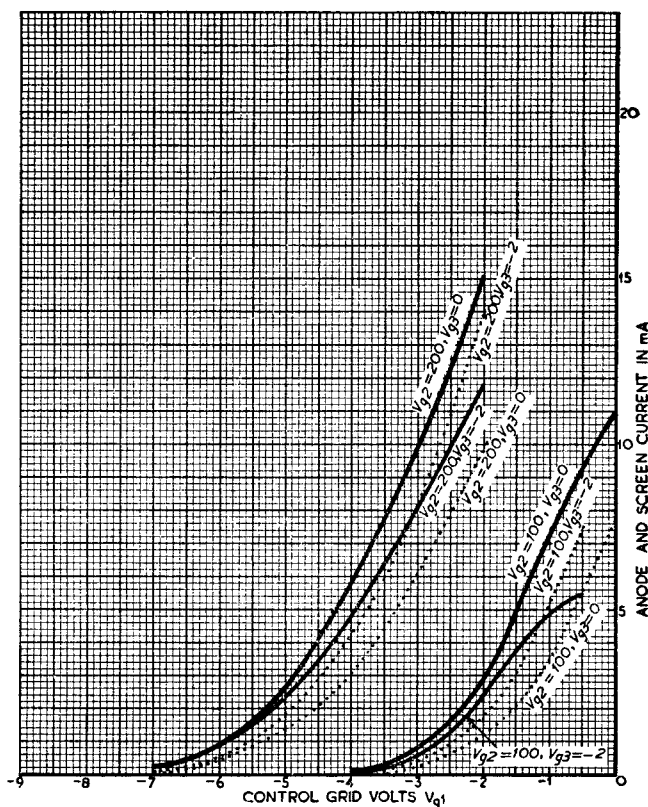
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CHARACTERISTIC CURVES OF AVERAGE

Curves taken at $V_0 = 200V$.

Key { — Anode Current
 Screen Current



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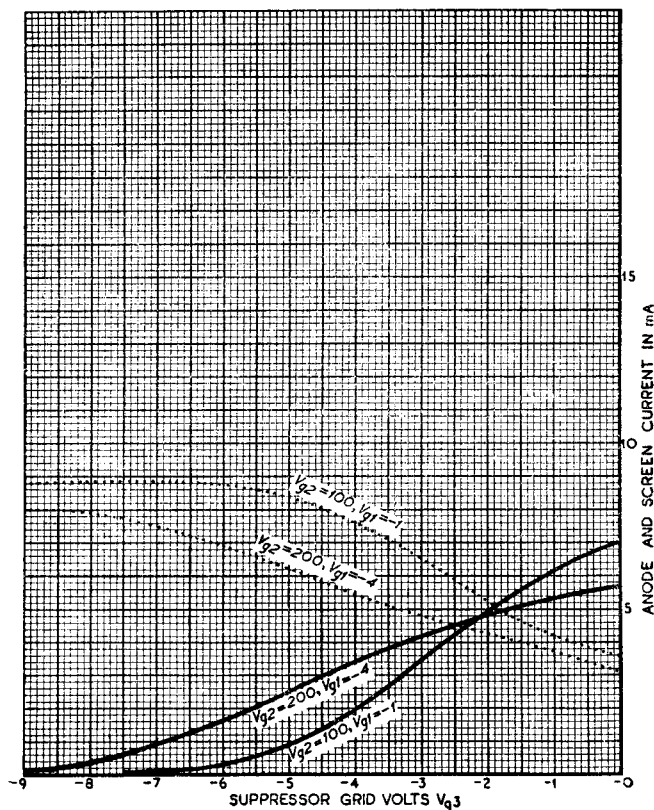
SCREENED R.F. PENTODE

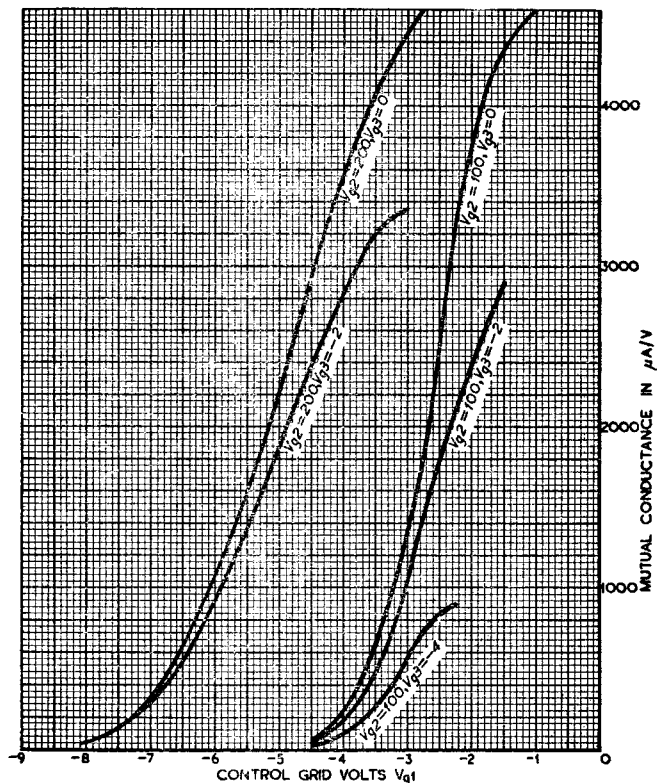
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CHARACTERISTIC CURVES OF AVERAGE

Curves taken at $V_b = 200V$.

Key { — Anode Current
 Screen Current



6F33**SCREENED R.F. PENTODE**
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CHARACTERISTIC CURVES OF AVERAGE

Curves taken at $V_g = 200V$ 