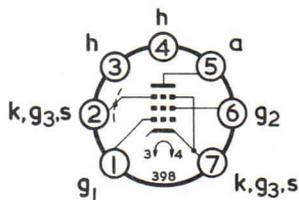


SHARP CUT-OFF V.H.F. PENTODE



B7G Base

GENERAL

This low noise, high slope pentode is primarily intended for use as an R.F. or I.F. amplifier.

Heater Voltage	V_h	6.3	V
Heater Current	I_h	0.175	A

RATINGS

Maximum Anode Dissipation	$P_{a(max)}$	1.7	W
Maximum Screen Grid Dissipation	$P_{g2(max)}$	0.5	W
Maximum Anode Voltage	$V_{a(max)}$	180	V
Maximum Screen Grid Voltage ($I_{g2} = 0$)	$V_{g2(b)max}$	180	V
Maximum Screen Grid Voltage	$V_{g2(max)}$	90	V
Maximum Peak Heater to Cathode Voltage	$V_{h-k(pk)max}$	120	V
Maximum Cathode Current	$I_k(max)$	18	mA

INTER-ELECTRODE CAPACITANCES*

Input	C_{in}	4.0	pF
Output	C_{out}	2.1	pF
Anode to Control Grid	C_{a-g1}	<0.03	pF

* Measured without an external shield.

CHARACTERISTICS

Anode Voltage	V_a	120	180	V
Screen Grid Voltage	V_{g2}	120	120	V
Anode Current	I_a	7.5	7.7	mA
Screen Grid Current	I_{g2}	2.5	2.4	mA
Cathode Bias Resistance	R_k	180	180	Ω
Mutual Conductance	g_m	5.0	5.1	mA/V
Valve Anode Resistance ($\delta V_a / \delta I_a$) (approx)	r_a	0.3	0.5	M Ω
Control Grid Voltage for $I_a = 10 \mu A$ (approx)	$V_{g1(I_a = 10 \mu A)}$	-8.5	-8.5	V

