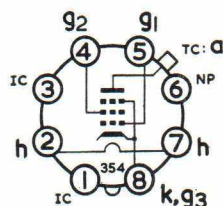


LINE OUTPUT PENTODE



I.O. Base, CT1 Top Cap

GENERAL

This valve is an output pentode intended for use as the line time base output valve in AC/DC television receivers having series connected heaters.

Heater Current	I_h	0.3 A
Heater Voltage	V_h	25 V

RATINGS

Maximum Anode Dissipation	$P_a(\text{max})$	See rating chart
Maximum Screen Grid Dissipation	$P_{g2}(\text{max})$	See rating chart*
Maximum Peak Anode Voltage,	$V_a(\text{pk}) \text{ max}$	
Pulse Positive		7.0† kV
Pulse Negative		1.5† kV
Maximum Anode Supply Voltage	$V_{a(b)} \text{ max}$	550 V
Maximum Anode Voltage	$V_a(\text{max})$	250 V
Maximum Screen Grid Supply Voltage	$V_{g2(b)} \text{ max}$	550 V
Maximum Screen Grid Voltage	$V_{g2}(\text{max})$	250 V
Maximum Heater to Cathode Voltage	$V_{h-k}(\text{max})$	
Cathode Positive		250 V
Cathode Negative		200 V
Maximum Cathode Current	$I_k(\text{max})$	200 mA
Maximum Control Grid to Cathode Resistance	$R_{g1-k}(\text{max})$	500 kΩ

* Maximum average screen dissipation is 7.0 watts during the period between the commencement of screen current flow and the instant when the anode current attains one half of its normal operating value.

† Maximum duration 22 per cent of one cycle with a maximum duration of 18 μs.

INTER-ELECTRODE CAPACITANCES

Input	C_{in}	17.5 pF
Output	C_{out}	8.0 pF
Anode to Control Grid	C_{a-g1}	<1.1 pF

CHARACTERISTICS

Anode Voltage	V_a	100 V
Screen Grid Voltage	V_{g2}	100 V
Control Grid Voltage	V_{g1}	-8.2 V
Anode Current	I_a	100 mA
Screen Grid Current	I_{g2}	7.0 mA
Mutual Conductance	g_m	14 mA/V
Valve Anode Resistance ($\delta V_a / \delta I_a$)	r_a	5.0 kΩ
Inner Amplification Factor	μ_{g1-g2}	5.6

