

30P18/PL84

OUTPUT PENTODE

TENTATIVE

GENERAL

The 30P18/PL84 is an indirectly heated miniature based Output Pentode having a maximum anode dissipation of 12 watts. It is intended for use as the Frame Output stage in AC/DC mains powered television receivers with series connected heater chains.

RATING

Heater Current (amps)	I_h	0.3
Heater Voltage (volts)	V_h	15
Maximum Anode Voltage (volts)	$V_a(\text{max})$	250*
Maximum Screen Voltage (volts)	$V_{g2}(\text{max})$	200
Maximum Anode Dissipation (watts)	$P_a(\text{max})$	12
Maximum Screen Dissipation (watts)	$P_{g2}(\text{max})$	1.75
Maximum Heater to Cathode Voltage (volts D.C.)	$V_{h-k}(\text{max})$	200
Mutual Conductance (mA/V)	g_m	10†
Anode Impedance (ohms)	r_a	23000†
Inner Amplification Factor	μ_{g1-g2}	8†
Maximum Mean Cathode Current (mA)	$I_{k(av)} \text{max}$	100
Maximum Grid 1 to Cathode Resistance (Self Bias) (Megohms)	$R_{g1-k}(\text{max})$	1

* Maximum Peak Anode Voltage (Pulse Positive) 2kV.
 Maximum Peak Anode Voltage (Pulse Negative) 500V.
 Maximum pulse duration 4% of one cycle with a maximum of 800 μ secs.

† Measured at $V_a = V_{g2} = 170V$; $I_a = 70mA$; $I_{g2} = 5mA$
 $V_{g1} = -12.5V$.

INTER-ELECTRODE CAPACITANCES (pF)

Grid 1/Earth	c_{g1-E}	11.8
Anode/Earth	c_{a-E}	6.0
Anode/Grid 1	c_{a-g1}	<0.6
Grid 1/Heater	c_{g1-h}	<0.25

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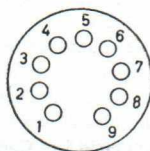
TEMPERATURE

DIMENSIONS

Maximum Overall Length	(mm)	78.5
Maximum Diameter	(mm)	22.2
Maximum Seated Height	(mm)	71.5
Approximate Nett Weight	(ozs)	$\frac{1}{2}$
Approximate Packed Weight	(ozs)	$\frac{3}{4}$

MOUNTING POSITION—Unrestricted

BASE—Noval (B9A)



Viewed from free end of pins

CONNECTIONS

Pin 1	Internal Connection	IC
Pin 2	Control Grid	g1
Pin 3	Cathode, Suppressor Grid	k, g3
Pin 4	Heater	h
Pin 5	Heater	h
Pin 6	Internal Connection	IC
Pin 7	Anode	a
Pin 8	Internal Connection	IC
Pin 9	Screen Grid	g2