MAZDA

30P4

TELEVISION BEAM POWER AMPLIFIER Indirectly heated—for AC/DC series operation

GENERAL

The 30P4 is primarily intended for use in the Magnetic Scanning Line Output Stage of A.C./D.C. Television Receivers with series connected heaters.

RATING

		Note
I _h	0.3	
v_h	25	
$V_{a(max)}$	400	(a)
Vg2(max)	250	
I _{k(max)}	160	
Pg2(max)	4.0	
P _{a (max)}	10-0	
V _{a (pk) max}	6,000	(c)
V _{h-k} (max)	200	(b)
R _{g1-k} (max)	1-0	
V _{g2} (pk) max	2,000	
	Vh Va(max) Vg2(max) Ik(max) Pg2(max) Pa (max) Va (pk) max Vh-k (max) Rg1-k (max)	Vh 25 Va(max) 400 Vg2(max) 250 Ik(max) 160 Pg2(max) 4·0 Pa (max) 10·0 Va (pk) max 6,000 Vh-k (max) 200 Rg1-k (max) 1·0

Rating (continued overleaf)

300

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NOTES

30PA

- (a) V_a may be increased to 550v. where a "recovered Voltage" of more than 200 volts is available.
- (b) Heater Cathode voltage is measured with respect to the higher potential heater pin.
- (c) Rated for Television Line Scan where the duty cycle does not exceed 15% and the pulse duration does not exceed 15 microseconds.

The maximum rating of 6 kV is a design centre rating. The absolute rating of 7.5 kV maximum must not be exceeded.

INTER-ELECTRODE CAPACITANCES (pF)

Control Grid to Earth	c _{in}	20.0
Anode to Earth	cout	10.0
Anode to Control Grid	C2-01	0.3

[&]quot;Earth" denotes the remaining earthy potential electrodes, heater and shields connected to cathode.

DIMENSIONS

Maximum Overall Length (mm)	113
Maximum Diameter (mm)	32
Maximum Seated Height (mm)	99
Approximate Nett Weight (ozs)	1 <u>1</u>
Approximate Packed Weight (ozs)	4

MOUNTING POSITION

If mounted horizontally it is recommended that pins 4 and 8 should be in a vertical plane.

March 1957

VALVE & CRT DIVISION

Issue 1/2

SIEMENS EDISON SWAN LIMITED

EDISWAN

Indirectly heated—for AC/DC series operation

30P4 TELEVISION BEAM POWER AMPLIFIER

BULB-Clear

TOP CAP-CT1

BASE—International Octal (IO7)



Viewed from Free End of Pins

CONNECTIONS

Pin 1	No connection	NC
Pin 2	Heater	h
Pin 3	Internal Connection†	IC
Pin 4	Screen Grid	g2
Pin 5	Control Grid	81
Pin 6	No Pin	NP
Pin 7	Heater	h
Pin 8	Cathode	k
Top Can	Anode	а

t "Internal connection" indicates that the pin is connected internally to an electrode for the purpose of improving mechanical rigidity of the valve. The connection may not always be made to the same electrode on a given valve type and it is essential that the corresponding valve holder socket be left unconnected.

July 1958

VALVE & CRT DIVISION

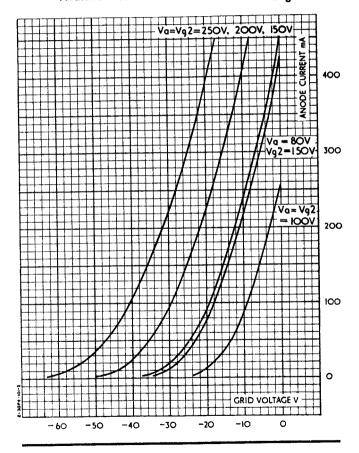
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30PA

EDISWAN MAZDA 30P4

TELEVISION BEAM POWER AMPLIFIER Indirectly heated—for AC/DC series operation

AVERAGE CHARACTERISTIC CURVES: Ia/Vg



July 1958

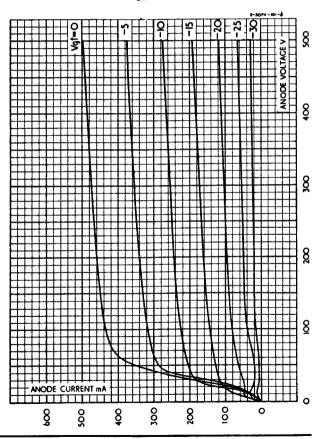
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EDISWAN MAZDA 30P4

TELEVISION BEAM POWER AMPLIFIER Indirectly heated—for AC/DC series operation

AVERAGE CHARACTERISTIC CURVES: I_a/V_a V_{g2}=150V



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PA