EDISWAN MAZDA

30P1/4

30PLI4

TRIODE OUTPUT BEAM TETRODE Indirectly heated—for series operation

TENTATIVE

GENERAL

The 30PL14 is a High Power Triode Beam Tetrode, designed principally for the Frame Time Base circuit of television receivers using 110° and 114° cathode ray tubes.

Each section has its own cathode.

The characteristics for the triode section are the same as for the 6/30L2 triode.

RATINGS	Te	etrode	Triode	
Heater Voltage	V_h	1	6	٧
Heater Current	lh.		0.3	Α
Maximum Anode Voltage	V _{a(max)}	250*	250	٧
Maximum Screen Voltage	Vg2(max)	250	•	٧
Maximum Anode	-, -			
Dissipation	pa(max)	8	1	W
Maximum Screen		_		
Dissipation	pg2(max)	2	•	W
Mutual Conductance	gm	•	3⋅4†r	nA/V
Amplification Factor	μ	•	18†	
Maximum Mean	•			
Cathode Current	k(av)max	75	•	mΑ
Maximum Heater/Cathode Voltage (r.m.s.	e) ^V h-k(max)	150**	150**	٧
Maximum Resistance	• ,			
Grid 1/Cathode (Self Bias))	2	•	МΩ
Maximum Resistance Grid 1/Cathode (Fixed Bias)	1	•	МΩ

^{*} Maximum peak anode voltage (pulse positive) 2.0kV. Maximum peak anode voltage (pulse negative) 500V. Maximum pulse duration 5% of one cycle with a maximum of 1 msec.

December, 1960

ADVANCE DATA

Associated Electrical Industries Limited

^{**} Measured with respect to the higher potential heater pin. $\dagger V_a = 200V$, $I_a = 10\text{mA}$.

EDISWAN

MA7DA 30PL14

TRIODE OUTPUT BEAM TETRODE Indirectly heated—for series operation **TENTATIVE**

DIMENSIONS

30PLIA

Maximum Overall Length	78·5 (mm)
Maximum Diameter	22·2 (mm)
Maximum Seated Height	71·5 (mm)

MOUNTING POSITION—Unrestricted.

TYPICAL OPERATION-Frame Time Base

The output stage should be designed to allow for valve spread and deterioration during life in addition to component variation. Values of total peak anode current available for a new average valve and at assumed end of life point for any valve are as follows :-

	٧a	Vg2	۷g۱	la .
Average New Valve	55V	170V	–1 V	210mA
Average New Valve	55V	185V	–1V	235mA
Assumed End of Life Condition	50V	170V	-1V	135mA
Assumed End of Life Condition	50V	185V	–1 V	151 mA

BASE—Noval (B9A)



Viewed from free end of pins

December, 1960

ADVANCE DATA

Associated Electrical Industries Limited

RADIO & ELECTRONIC COMPONENTS DIVISION

EDISWAN

30ALIA

30PL14

TRIODE OUTPUT BEAM TETRODE Indirectly heated—for series operation TENTATIVE

CONNECTIONS

Pin 1	Triode Grid	gt
Pin 2	Tetrode Cathode, Beam Plates, Screen	k_{q},b_{p},S
Pin 3	Tetrode Control Grid	, gi
Pin 4	Heater	h
Pin 5	Heater	h
Pin 6	Tetrode Anode	aq
Pin 7	Tetrode Screen Grid	g2
Pin 8	Triode Cathode	kt
Pin 9	Triode Anode	a.

December, 1960

ADVANCE DATA