

ELECTRONIC TUBE REFERENCE

6P15

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Power/output pentode designed for low-frequency or audio-frequency output amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 760 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	38000 Ω
TRANSCONDUCTANCE	0.0113 S
AMPLIFICATION FACTOR	19
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	65 mA
Published electrical limits and characteristics promoted from the approved source.	

Output pentode for audio-frequency power amplification. Technical and descriptive data are taken from the supplied English-language Mazda/Thorn-AEI datasheet.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1973 Mazda Valves Binder 2

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1973 MAZDA VALVES BINDER 2

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage Vh	6.3 V	—
Heater Current Ih	760 mA	—
Maximum Anode Voltage Va(max)	300 V	—
Maximum Screen Voltage Vg2(max)	300 V	—
Maximum Anode Dissipation Pa(max)	12 W	—
Voltage d.c. Vh-k(max)	100 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current Ik(av)max	65 mA	—
* At Va = Vg2 = 250V. Ia = 48 mA. Vg1 = —	73 V	—
Anode Supply Voltage Va(b)	250 V	—
Screen Voltage (screen to earth) Vg2	250 V	—
Anode Current (quiescent) Ia(o)	48 mA	—
Screen Current (quiescent) Ig2(o)	5.5 mA	—
Grid Bias Vg1	7.3 V	—
Input Swing for 50mW (r.m.s.) 0.25	34 V	—
Input Swing for 250mW (r.m.s.) 0.57	0.75 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Supply Voltage $V_a(b)$	257 V	—
Screen Voltage (screen to earth) V_{g2}	257 V	—
Anode Current (quiescent) $I_a(o)$	49.5 mA	—
Screen Current (quiescent) $I_{g2}(o)$	57 mA	—
Input Swing for 50mW (r.m.s.) 025	0.34 V	—
Input Swing for 250mW (r.m.s.) 0.57	75 V	—
($V_h=6.3V$, $V_{g2}=$	250 V	—
($V_{gy}=$	300 V	—
n II —	11 A	—

TUBE TINKER

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