



ELECTRONIC TUBE REFERENCE

PCL800

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

BEAMPOWER-TRIODE

Television combination tube designed for video and synchronization circuitry, integrating small-signal and beam-power functions for compact receiver signal processing.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9A	BASE PINS	9
NOMINAL HEATER	16 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0043 S
AMPLIFICATION FACTOR	18
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1 W
Published ratings and characteristics promoted from the approved English source.	

SECTION2 Beam Power	
TRANSCONDUCTANCE	0.0075 S
AMPLIFICATION FACTOR	8.3
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	7 W
MAXIMUM SCREEN DISSIPATION	2.4 W
MAXIMUM CATHODE CURRENT	75 mA
<i>Published ratings and characteristics promoted from the approved English source.</i>	

Triode output beam-tetrode for television field-deflection circuits using 110-degree cathode-ray tubes. The supplied English-language Mazda/Thorn-AEI datasheet was used for the technical and descriptive extraction.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current I_h	300 mA	—
Heater Voltage V_h	16 V	—
Maximum Anode Dissipation $p_{a(max)} 1$	7 W	—
Maximum Screen Dissipation $P_{52(max)}$	24 W	—
Maximum Anode Voltage $V_{a(max)} 250$	250 V	—
Maximum Screen Grid Voltage $V_{g_z(max)}$	250 V	—
Maximum Mean Cathode Current $I_{k(av)max}$ —	75 mA	—
Maximum pulse duration 4% of one cycle with a maximum of	800 μs	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to Earth $c_{81.E 100 104}$	115 pF	—
Anode Tetrode to Earth $c_{aq.E 95 103}$	114 pF	—
Grid 1 to Anode Tetrode $c_{gi .aq 036 036}$	0.37 pF	—
Grid Triode to Earth $c_{gt-E 21 24}$	33 pF	—
Anode Triode to Earth $c_{at-E 19 23}$	33 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Triode to Anode Triode cgt-at 23 23	24 pF	—
Grid 1 to Anode Triode cgl- at 0 007 0 014 0	19 pF	—
Grid Triode to Anode Tetrode cgt-aq 0 017 0 022 0	24 pF	—
Anode Tetrode to Anode Triode caq-at 0075 0 085 0	95 pF	—
Anode Voltage Va 100	170 V	—
Screen Grid Voltage Vg2 –	170 V	—
Anode Current Ia 10	45 mA	—
Screen Current Ig _ –	87 mA	—
j.____wn .____._	10 a	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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