



ELECTRONIC TUBE REFERENCE

PCF808

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Triode-pentode for television IF amplification with a general-purpose scanning-oscillator triode.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9A	BASE PINS	9
NOMINAL HEATER	7.4 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	31000 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	15 mA
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

SECTION2 Pentode	
TRANSCONDUCTANCE	0.0145 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	230 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM SCREEN DISSIPATION	0.7 W
MAXIMUM CATHODE CURRENT	18 mA
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

Triode-pentode for television IF amplification with a general-purpose scanning-oscillator triode. 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 Ih	300 mA	—
Heater Voltage Vh	7.4 V	—
Maximum Anode Dissipation Pa(max) 20	2 W	—
Maximum Screen Grid Dissipation Pg2(max)	0.7 W	—
Maximum Anode Voltage Va(max) 250	250 V	—
Maximum Screen Grid Voltage Vg2(max)	230 V	—
Maximum Heater to Cathode Voltage (R.M.S.) Vh- k(r.m.s.)max 200	200 V	—
Maximum Cathode Current k(max) 15	18 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to Earth cg1_E &	4 pF	—
Anode Pentode to Earth cap_E	27 pF	—
Anode Pentode to Grid 1 cap_g1	0.008 pF	—
Anode Pentode to Grid 2 cap_g2	35 pF	—
Grid 1 to Grid 2 cg1_g2	21 pF	—
Grid Triode to Earth cgt_E	2.4 pF	—
Anode Triode to Earth cat-E	16 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Triode to Grid Triode Cat-gt	2.1 pF	—
Anode Triode to Anode Pentode cat-ap	2 pF	—
Grid Triode to Grid 1 Cgt_g1 0	15 pF	—
Grid Triode to Anode Pentode cgt_ap 0	2 pF	—
Grid 1 to Anode Triode cgl_at	0.006 pF	—
Anode Voltage Va 100	160 V	—
Screen Grid Voltage Vg2	160 V	—
Control Grid Voltage Vg1 -30	-17 V	—
Anode Current Ia 14	12 mA	—
Screen Grid Current Ig2	4 mA	—
Mutual Conductance gm 5.5	14.5 mA	—

TUBE TINKER

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

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