



ELECTRONIC TUBE REFERENCE

30C15

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

VHF triode-pentode frequency changer for AC/DC television receivers.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	14 mA
Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.	

SECTION2 Pentode	
TRANSCONDUCTANCE	0.0085 S
AMPLIFICATION FACTOR	55
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	1.7 W
MAXIMUM SCREEN DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	14 mA
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

VHF triode-pentode frequency changer for AC/DC television receivers. The supplied English-language Mazda/Thorn-AEI datasheet was used for the technical and descriptive extraction.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Mazda

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

1960 MAZDA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum heater-cathode voltage	200 V	—



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	3 A	—
Heater Voltage V_h	90 V	—
Maximum Anode Dissipation $P_a(\text{max})$ 1.5	1.7 W	—
Maximum Screen Dissipation $P_{g2}(\text{max})$	0.5 W	—
Maximum Anode Voltage $V_a(\text{max})$ 250	250 V	—
Maximum Screen Voltage $V_{g2}(\text{max})$	175 V	—
Maximum Heater to Cathode Voltage (RMS) $V_{h-k}(\text{r.m.s.})_{\text{max}}$	200 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Cathode Current Ik(max) 15	14 mA	—
Supply Voltage Vb	200 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to all cin(p) 66 68	7.7 pF	—
Anode Pentode to all cout(p) 46 4.9	5.9 pF	—
Anode Pentode to Grid 1 cap-g1 0 013 0017	2 pF	—
Grid 1 to Grid 2 cg1_g2 23 23	23 pF	—
Grid Triode to Earth cgt-E 28 30	38 pF	—
Anode Triode to Earth cat-E 27 29	3.7 pF	—
Anode Triode to Grid Triode cat-gt 16 17	18 pF	—
Anode Triode to Anode Pentode cat-ap 0 016 0 022 0	26 pF	—
Anode Pentode to Grid Triode ca p-gt 0 003 0 005	0.006 pF	—
Grid 1 to Grid Triode cg1-gt 0 012 002	4 pF	—
Grid 1 to Anode Triode cg1-at 0 006 001 0	15 pF	—
Anode Voltage Va 100	170 V	—
Screen Voltage Vg2 —	170 V	—
Anode Current Ia 15	10 mA	—
Mutual Conductance gm 6	9 mA	—
Anode Voltage (Decoupling resistance=4.7kQ) Va	164 V	—
Screen Voltage (Rg2=27kf2) Vg2	138 V	—
Conversion Conductance gc	3.3 mA	—
Heterodyne Peak Voltage vhet(pk)	37 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Current (Approximate) I_a	76 mA	—
Screen Current (Approximate) I_{g2}	2.3 mA	—
Anode Voltage V_a	120 V	—
Average Anode Current $I_a(av)$	6 mA	—

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker