



ELECTRONIC TUBE REFERENCE

EL504

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

High-perveance power pentode dedicated to television horizontal line-output amplification, providing the large current pulses required by magnetic deflection transformers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9C18	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.38 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode*No fixed ratings recorded.**Beam power pentode for television line-output service*

Power pentode for television line-deflection amplification. Indirectly heated Mazda/Belvu receiving tube; descriptive text translated to English from the French source.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension filament ... soneececoseaneatencannen ceveseccerrrs VE	6.3 V	—
Courant filament If	1.38 A	—
Tapacité grille n°1/ filament Ca/F	0.2 pf	—
Tension d'anode à courant nul s rses cocaorce Vabl	550 V	—
xenracsarnece Va	250 V	—
Tension de crête d'anode Vacr	7 V	—
Tension de grille n° 2 à courant nul ... Vg2bl	550 V	—
en sanavars	250 V	—
Courant de cathode	250 mA	—
Tension entre filament et cathode S	220 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension d'anode va	75 V	—
Tension de grille n° 2 V&	200 V	—
Tension de grille n° 1 Ve	-10 V	—
Courant de crête d'anode srarvacececoeur e rn TACT	440 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Courant de crête de grille n° 2 ...c Iger	30 mA	—
VN 170 200	230 v	—
VB3 m.crsoasnsnsreu sasasesesses coseve 0m 130 150 130 150 170 150 170	190 V	—
VA (2) verrensrrensencenssenance ue 62 66 65 69 "3 72 76	80 V	—
VE; (3) Leussrresemasameseeencniene -6 -T -6 -7 -8 -7 -8	-9 V	—
TACT (4) L.ucosvessssnerensenrecensens 250 310 ! 250 310 360 ! 310 360	420 mA	—
Tension d'alimentation ...s VN 190	230 V	—
Tension continue de grille n° 1 VE (3) +1 +	1 V	—
Courant de crête d'anode s Tacr (4) / 230	320 mA	—
diminue de	15 V	—
la tension de grille n° 1 nécessaire pour assurer le blocage du tube est de	120 V	—
(Va = 7kV; Vg, =	200 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

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

TUBE TINKER

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