



ELECTRONIC TUBE REFERENCE

6CK6

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Power pentode optimized for wideband video-frequency amplification and general Class A output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9AR	BASE PINS	9
NOMINAL HEATER	6.3 V / 710 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	130000 Ω
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	70 mA
<i>Power pentode section.</i>	

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



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Screen-grid voltage	250 V	ClassA
Grid voltage	-5.5 V	ClassA
Plate current	36 mA	ClassA
Screen-grid current	5 mA	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	1.2 pF	—
Output capacitance	6.6 pF	—



SOURCE OPERATING CONDITIONS

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
st emeenaccaceunse Vf	6.3 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacité d'entrée eeennmennncennnnennnnnn Ce	10.8 pF	—
Capacité de S0rtIE eeneiesmenemenennnnçeanne Cs	6.6 pF	—
Capacité grille n°1/ grille n°2..... rsrreceses Ce,/ 8	3.2 pF	—
Tension d'AN0dE rereircenmersesssencrersercrssenmencreneceanrenene Va	250 V	—
Tension de grille n° 3 eseecseameenmeensenennnentenseüûnÊnnnnn	0 V	—
Tension de grille n° 2'	250 V	—
Tension de grille n° 1 ecessreneeeconsereresranresmeaneens Ve,	-55 V	—
Courant d'AN0dE cereresseocermentenmencesens entrcremerenenaenee Ia	36 mA	—
Courant de grille n° 2	5 mA	—
sperroserc en e nc nc enresacEnAncc e cs cVreave	10 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Courant filament If	710 mA	—
Capacité grille n°1/anode..... .. Cg,/a	0.1 pF	—
Capacité grille n°1/filament C@,/f	0.15 pF	—
Tension d'anode à courant nul mccrceccrrecensecencesecess Vabl	550 V	—
Tension d'Anod@E eersrrreecerensreneererrentesessscesse Va	300 V	—
Tension de grille n° 2 à courant nul useeceseerenene Ve,bl	550 V	—
Tension de grille n° Z uesererersererercensarnsencenencanensences Ve,	300 V	—
grille n° 1 égale à + 0,3 LÅ cceicorcuseenececessrsrencenenes -Ve,	1.3 V	—
Courant de cathode Ik	70 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Dissipation d'anode Pa	9 W	—
Dissipation de grille n° 2 enrerensecsscannnenerensencecronee Pg,	2 W	—
Tension entre filament et cathod@ seesese Vfk	100 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	710 mA	—
Plate voltage	250 V	—
Screen voltage	250 V	—
Plate current	36 mA	—
Screen current	5 mA	—
Transconductance	10000 uS	—
Plate resistance	130000 ohm	—
Screen-grid amplification factor	24	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum signal output power	4.5 W	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	11.2 pF	—
Output capacitance	6.6 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-grid capacitance maximum	0.1 pF	—

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