

ELECTRONIC TUBE REFERENCE

EF94

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Indirectly heated fixed-slope pentode designed for RF voltage amplification. Its abrupt transfer characteristic provides fixed high-frequency gain rather than the variable-mu behavior used for automatic gain control.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1500000 Ω
TRANSCONDUCTANCE	0.0044 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	0.65 W
Published ratings/characteristics promoted from source tables.	

Indirectly heated fixed-slope pentode for RF voltage amplification.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage = ... eccrserseermescenserçeesesssesesousess VĚ	6.3 V	—
Heater current ...If	300 mA	—
Tension d'ANOĚĚ L..... scosriesencenssensescenceoncessensesssesraerenaveenees V0	300 V	—
Screen-grid voltage ... Ve	150 V	—
Screen-grid voltage àcourant nul ascssssssassseeserssecen V 82 DL	300 V	—
Plate dissipation ... asnoncrsosessssccoreausnererssenveemernsenseccsecnren PB	3 W	—
Screen-grid dissipation arscssseressertenenaene se ssssecace en se sess se E 22	0.65 W	—
valeur de polarisation négative ... -VEg	50 V	—
valeur de polarisation positive ... Ve	0 V	—
Tension entre filament et cathod@ s VIE	180 V	—
Plate voltage ... sevsestensesssesenseneesenemenventencse V 100 250	250 V	—
Screen-grid voltage ... Vg, 100 125 j	150 V	—
Plate resistance (approx.) p 0,5 1,5	1 MΩ	—
Transconductance c .S 3,9 4,5	5.2 mA/V	—
d'anode de	10 uA	—
4,2 -5,5	-6.5 V	—
Plate current A 5,2 7,6	10.8 mA	—
Courant de grille n° Z...veseremensesenmnnnün 2,1 31	4.3 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
se orenensoense V 0	250 V	—
Tension positive de grille n° 1	0 V	—
Plate dissipation ... “	3.2 W	—
Tension entre filament et cathode	180 V	—
Tension d'AN0dE c seenmereenenentennnnnnnsnnnnnmnnnemnnnnns V	250 V	—
Résistance dé cathode Rk	330 Ω	—
Plate resistance p	7.5 kΩ	—
Transconductance s ...oS	4.8 mA/V	—
se se se ucc L	12.2 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitance d'Entrée@ srenseenenenesnmennätissss CC	5.5 pF	InterelectrodeCapacitance
Capacitance d€ SOIÈLE cessenssseencassrsssnccansemene CS	5 pF	InterelectrodeCapacitance
Capacitance grille n° 1/ AN0d€ rrreereereessene CB,/à	3.5 pF	InterelectrodeCapacitance
Capacitance d'Entrée meemeeiassenenenennnnnnnÛNce	3.1 pF	InterelectrodeCapacitance
sossvens CS	1.7 pF	InterelectrodeCapacitance
Capacitance grille n° 1/ AN0d€ ersecerrererres CB1/A	2.5 pF	InterelectrodeCapacitance