



ELECTRONIC TUBE REFERENCE

EL90

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Indirectly heated power-output tube intended for audio-frequency output-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	52000 Ω
TRANSCONDUCTANCE	0.0041 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	2 W
<i>Published ratings/characteristics promoted from source tables.</i>	

Indirectly heated power output tube intended for AF output-amplifier service.

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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ĖELVU Amplificateur de sortie A.F	6 A	—
Tension filAment uesemeennnnennnnnnnnnnnnnnnn V	6.3 V	—
Heater current	450 mA	—
Plate voltage+... scorsrernsoncene V	250 V	—
Tension de grille n°2.....-0cecccccecees VEZ	250 V	—
Plate dissipation s Pă	12 W	—
Dissipation de grille n°2 ...c PE	2 W	—
Tension entre filament et cathode Vfk	90 V	—
Tension d'Anod@ reseroonceseeverereensecces VA 180	250 V	—
Screen-grid voltage..... usccćsrererecereuseuss VEZ 180	250 V	—
Tension de grille n° 1...c VEI -8,5	-12.5 V	—
Tension de crête d'entrée Ve CI 8,5	12.5 V	—
Plate current à signal nul. Iasigo 29	45 mA	—
Plate current à signal max..... . . Iasigmax 30	47 mA	—
Courant de grille n°2 à signal nul . . Ig,sigo 3	4.5 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Courant de grille n°2 à signal max $I_{g, sigmax}$ 4	7 mA	—
Plate resistance s P 58	52 k Ω	—
Transconductance cevsemescrereeee S 3,7	4.1 mA/V	—
Résistance de charge danode vrésrrocceerermree R 5,5	5 k Ω	—
Puissance de sortie à 5lgnalmax Pssigmax 2	4.5 W	—
Plate voltage c VA	250 V	—
Tension de grille n°2 _.. corerssreserasens VBZ	250 V	—
Tension de grille n° 1... VE1	-15 V	—
Tension de crête d'entrée VeCT	30 V	—
Plate current à signal nul... .. $I_{a sig}$ o	70 mA	—
Plate current à signal max..... .. $I_{a sig}$ max	79 mA	—
Courant de grille n° 2 à signal nul $I_{g, sig}$ o	5 mA	—
Courant de grille n° 2 à signal max $I_{g, sig}$ max	13 mA	—
Résistance de charge d anodeàanode Raa	10 k Ω	—
Puissance de sortie s PS	10 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitance de sortie C_s	6 pF	InterelectrodeCapacitance
Capacitance grille n° 1/ anode $C_{g, /a}$;	0.35 pF	InterelectrodeCapacitance
Capacitance d'Entrée neerrsernsenceensentareneennsssesenes C_e	8 pF	InterelectrodeCapacitance
Capacitance de sortie C_s	11 pF	InterelectrodeCapacitance
Capacitance grille n°1 /anode $C_{g, /a}$	0.17 pF	InterelectrodeCapacitance



TUBE TINKER

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and their source documents.

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