



ELECTRONIC TUBE REFERENCE

6005

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Rugged beam-power tube designed for audio-frequency output stages and other demanding power-amplifier applications.

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	58000 Ω
TRANSCONDUCTANCE	0.00375 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	65 mA
MAXIMUM HEATER-CATHODE VOLTAGE	90 V
<i>AF output beam tetrode.</i>	

Rugged power beam tube for audio-frequency output stages and other power-amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Compagnie General

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

1958 COMPAGNIE GENERAL

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	450 mA	—
Grid-to-Plate Capacitance	0.8 pF	Maximum
Input Capacitance	8 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	6.3 V	—
HeaterOrFilamentCurrentNominal	450 mA	—
Plate Voltage	250 V	Published datasheet table
Screen Voltage	250 V	Published datasheet table
Plate Dissipation	12 W	Published datasheet table
HeaterCathodeVoltage90Volts	90 V	Published datasheet table
GridNumber1CircuitResistance	1	Published datasheet table
WithFixedBias01Megohm	0.1 Megohm	Published datasheet table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PlateVoltageValue1	180 V	Published datasheet table
PlateVoltageValue2	250 V	Published datasheet table
ScreenVoltageValue1	180 V	Published datasheet table
ScreenVoltageValue2	250 V	Published datasheet table
GridNumber1VoltageValue1	1 V	Published datasheet table
GridNumber1VoltageValue2	8.5 V	Published datasheet table
GridNumber1VoltageValue3	12.5 V	Published datasheet table
PeakAFGridNumber1VoltageValue1	1 V	Published datasheet table
PeakAFGridNumber1VoltageValue2	8.5 V	Published datasheet table
PeakAFGridNumber1VoltageValue3	12.5 V	Published datasheet table
PlateResistanceAPProXValue1	58000 Ohm	Published datasheet table
PlateResistanceAPProXValue2	52000 Ohm	Published datasheet table
ZeroSignalPlateCurrentValue1	29 mA	Published datasheet table
ZeroSignalPlateCurrentValue2	45 mA	Published datasheet table
MaximumSignalPlateCurrentValue1	30 mA	Published datasheet table
MaximumSignalPlateCurrentValue2	47 mA	Published datasheet table
ZeroSignalScreenCurrentValue1	3 mA	Published datasheet table
ZeroSignalScreenCurrentValue2	4.5 mA	Published datasheet table
Maximum Signal Screen Current	4 mA	Published datasheet table
LoadResistanceValue1	5500 Ohm	Published datasheet table
LoadResistanceValue2	5000 Ohm	Published datasheet table
TotalHarmonicDistortionApprox	8	Published datasheet table
PowerQUtpULValue1	2 W	Published datasheet table
PowerQUtpULValue2	4.5 W	Published datasheet table
PlateVoltage250Volts	250 V	Published datasheet table
ScreenVoltage250Volts	250 V	Published datasheet table
GridNumber1Voltage15VoltsValue1	1 V	Published datasheet table
GridNumber1Voltage15VoltsValue2	15 V	Published datasheet table
PeakAFGridToGridVoltage30Volts	30 V	Published datasheet table
PlateResistanceEachTube600000hms	60000 Ohm	Published datasheet table
TransconductanceEachTube3750Micromhos	3750 uS	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ZeroSignalPlateCurrent70Milliamperes	70 mA	Published datasheet table
MaximumSignalPlateCurrent79Milliamperes	79 mA	Published datasheet table
MaximumSignalScreenCurrent13Milliamperes	13 mA	Published datasheet table
EffectiveLoadResistancePlateToPlate100000hms	10000 Ohm	Published datasheet table
Maximum Signal Power Output	10 W	Published datasheet table



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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	450 mA	Nominal
Maximum Plate Voltage	275 V	—
Maximum Screen Voltage	275 V	—
Maximum Plate Dissipation	11 W	—
Maximum Screen Dissipation	2.2 W	—
Maximum Cathode Current	65 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4100 μS	Typical
Plate Resistance	52000 ohm	Typical

TUBE TINKER

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

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