



ELECTRONIC TUBE REFERENCE

25DN6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Beam-power pentode for low-B-plus television horizontal-deflection service, with controlled heater warm-up and high pulse-voltage capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B8-118	BASE PINS	8
NOMINAL HEATER	25 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 0 Beam Power	
PLATE RESISTANCE	4000 Ω
TRANSCONDUCTANCE	0.009 S
AMPLIFICATION FACTOR	4.35
MAXIMUM PLATE VOLTAGE	700 V
MAXIMUM SCREEN VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM SCREEN DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	200 mA
<i>Horizontal-deflection service; peak positive pulse plate rating promoted.</i>	

The 25DN6 is a beam power amplifier intended for horizontal-deflection service in television receivers using relatively low B-supply voltage, with controlled heater warm-up and high pulse-voltage capability.

SOURCE OPERATING CONDITIONS

1950 Sylvania

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

1950 SYLVANIA

Section 0 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Pulse Plate Voltage	6600 V	Horizontal deflection; absolute maximum
Peak Negative Pulse Plate Voltage	1500 V	—
Peak Cathode Current	700 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	70 mA	125 V plate and screen

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

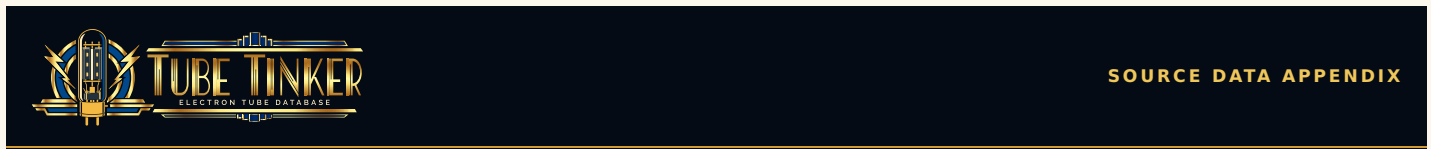
Section 0 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal
Heater current	600 mA	Nominal
Maximum peak positive pulse plate voltage	6600 V	HorizontalDeflection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak negative pulse plate voltage	1500 V	HorizontalDeflection
Maximum peak cathode current	700 mA	HorizontalDeflection
Plate voltage	125 V	Typical operating conditions
Screen voltage	125 V	Typical operating conditions
Grid 1 voltage	-18 V	Typical operating conditions

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater warm-up time	11 s	ControlledWarmup
Plate current	70 mA	Typical operating conditions
Grid 2 current	6.3 mA	Typical operating conditions
Transconductance	9000 uS	Typical operating conditions
Plate resistance	4000 ohm	Typical operating conditions
Zero-bias plate current	240 mA	Typical operating conditions
Zero-bias grid 2 current	30 mA	Typical operating conditions
Grid 1 cutoff voltage	-36 V	Typical operating conditions
Triode amplification factor	4.35	Typical operating conditions

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to plate	0.8 pF	Direct interelectrode capacitance
Input capacitance	22 pF	Direct interelectrode capacitance
Output capacitance	11.5 pF	Direct interelectrode capacitance



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

Section 0 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	TypicalOperation
Heater current	600 mA	TypicalOperation
Maximum DC plate supply voltage	700 V	WholeTube
Maximum positive pulse plate voltage	6600 V	HorizontalDeflection
Maximum negative pulse plate voltage	1500 V	HorizontalDeflection
Maximum average cathode current	200 mA	WholeTube
Maximum peak cathode current	700 mA	WholeTube
Heater warm-up time	11 s	WholeTube
Plate current	70 mA	TypicalOperation
Screen current	6.3 mA	TypicalOperation
Transconductance	7000 μ S	TypicalOperation
Plate resistance	4000 ohm	TypicalOperation
Triode-connected amplification factor	4.35	TriodeConnection



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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 0 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate-Supply Voltage	700 V	HorizontalDeflection
Peak Negative Pulse Plate Voltage	1500 V	HorizontalDeflection



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7

Section 0 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	700 V	—
Maximum Screen Voltage	175 V	—
Plate Dissipation	15 W	—
Screen Input	3 W	—
Plate Voltage	125 V	—
Screen Voltage	125 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	4000 Ω	—

TUBE TINKER

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

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