



ELECTRONIC TUBE REFERENCE

25BK5

Power - Beam Single (NOT sweep) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power tube documented for power-amplifier service with approximately 3.5 watts Class-A output; the family is also rated for television deflection applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9BQ	BASE PINS	9
NOMINAL HEATER	25 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.0085 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	2.5 W
<i>Supplied 25BK5 sheet identifies this as a heater-voltage variant of 6BK5. Promoted beam-power electrical fields were populated from the exact parent-type technical data; heater values remain specific to the supplied 25BK5 sheet.</i>	

Beam-power tube for television horizontal-deflection or power-amplifier service. Heater characteristics come from the supplied variant sheet; exact parent electrical characteristics are reused only when the explicitly referenced parent datasheet is already present in the project corpus.

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 · Beam Power

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	3 pF	—
Output capacitance	5 pF	—
Grid-to-plate capacitance	0.6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Screen-grid voltage	250 V	ClassA
Grid voltage	-5 V	ClassA
Plate current	35 mA	ClassA
Screen-grid current	3.5 mA	ClassA
Load resistance	6500 ohm	ClassA
Power output	3.5 W	ClassA

SOURCE OPERATING CONDITIONS

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA
Screen Voltage	250 V	ClassA
Grid1 Voltage	-5 V	ClassA
Peak AF Grid1 Voltage	5 V	ClassA
Zero Signal Plate Current	35 mA	ClassA
Maximum Signal Plate Current	37 mA	ClassA
Zero Signal Screen Current	3.5 mA	ClassA
Maximum Signal Screen Current	10 mA	ClassA
Load Resistance	6500 ohm	ClassA
Total Harmonic Distortion	7 %	ClassA
Maximum Signal Power Output	3.5 W	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1 To Plate Capacitance	0.6 pF	—
Input Capacitance	13 pF	—
Output Capacitance	5 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal heater rating from supplied sheet
Heater current	300 mA	Nominal heater rating from supplied sheet

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	100000 ohm	ExactParentElectricalData 6BK5
Transconductance	8500 uS	ExactParentElectricalData 6BK5

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	ExactParentElectricalData 6BK5
Maximum screen-grid voltage	250 V	ExactParentElectricalData 6BK5
Maximum plate dissipation	9 W	ExactParentElectricalData 6BK5
Maximum screen-grid dissipation	2.5 W	ExactParentElectricalData 6BK5

TUBE TINKER

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