ELECTRONIC TUBE REFERENCE

19BG6GA

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

> Beam pentode heater variant electrically related to 6BG6GA, intended for television horizontal line-output and deflection service.

General characteristics

BASE DESIGNATION	5BT	**BASE PINS**	8
NOMINAL HEATER	18.9 V / 300 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

5BT - Terminal pinout

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 — IS	A	IS — Internal Screen	CONNECTED
PIN2 — H	—	H — Heater	CONNECTED
PIN3 — G3	A	G3 — Suppressor Grid	CONNECTED
PIN3 — K	A	K — Cathode	CONNECTED
PIN5 — G1	A	G1 — Control Grid	CONNECTED
PIN7 — H	—	H — Heater	CONNECTED
PIN8 — G2	A	G2 — Screen Grid	CONNECTED
CAP1 — P	A	P — Plate (Anode)	CONNECTED

Section ratings

SECTION1 Beam Power

PLATE RESISTANCE	25000 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM SCREEN VOLTAGE	350 V
MAXIMUM PLATE DISSIPATION	20 W
MAXIMUM SCREEN DISSIPATION	3.2 W
MAXIMUM CATHODE CURRENT	110 mA

DC plate-supply and pulse plate-voltage ratings are preserved as parameters; there is no separately stated generic maximum DC plate voltage.

19BG6-GA beam pentode, electrically identical to 6BG6-GA except heater ratings.

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

Section 1 · Beam Power

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
DCPlateSupplyVoltageBoostPlusDC	**700 V**	HorizontalDeflection
Peak Positive Pulse Plate Voltage	**6600 V**	HorizontalDeflection
Peak Negative Pulse Plate Voltage	**1500 V**	HorizontalDeflection
PeakNegativeGrid1Voltage	**300 V**	HorizontalDeflection
Peak Cathode Current	**400 mA**	HorizontalDeflection
BulbTemperatureMaximum	**210 C**	HorizontalDeflection

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate Voltage	**250 V**	AverageCharacteristics
Screen Voltage	**250 V**	AverageCharacteristics
Grid1 Voltage	**-15 V**	AverageCharacteristics
Plate Current	**75 mA**	AverageCharacteristics
Screen Current	**4 mA**	AverageCharacteristics
TriodeAmplificationFactor	**8**	TriodeConnection; PlateAndScreen=250V; Grid1=-15V

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid1 To Plate Capacitance	**0.8 pF**	—
Input Capacitance	**11 pF**	—
Output Capacitance	**6 pF**	—

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