



TYPE 6F5GT

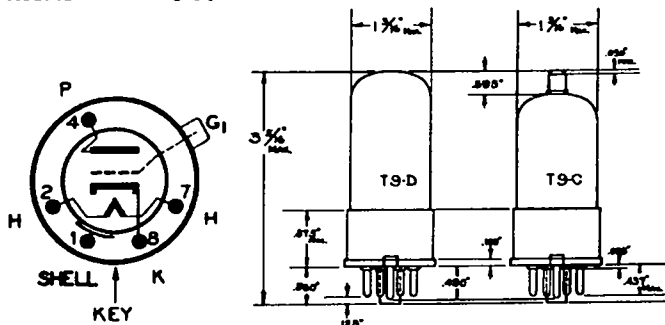
HYTRON BANTAM

GENERAL DESCRIPTION

Application: The Hytron 6F5GT is a cathode type high- μ triode designed primarily for service in high gain resistance coupled circuits.

The Hytron 6F5GT is a glass tube equipped with a small octal base and may be used interchangeably with the Hytron 6F5G glass tube where conditions permit larger size.

Physical Characteristics: Bulb T-9C



RATING AND CHARACTERISTIC

Heater:
 Voltage 6.3 Volts AC or DC
 Current 0.3 Amperes

Note: Voltage between heater and cathode should be kept at a minimum if direct connection is not possible.

AMPLIFIER OPERATION (CLASS A RESISTANCE COUPLED)

*Plate Supply Voltage	250	250 Volts
Grid Voltage	-1.3	-1.3 Volts
Plate Current	0.2 to 0.4	0.2 to 0.4 Milliamperes
Plate Resistor	0.25 to 1.0	0.25 to 1.0 Megohm
Grid Resistor of Following Tube	0.25	0.5 Megohm
Output Voltage(5% End Harmonic)	11 to 20	14.5 to 25.5 RMS Volts
Voltage Amplification	52 to 58	51 to 60

*Effective plate voltage will be this value minus the voltage drop in the plate resistor. Voltage at plate should not exceed 250 volts.

AMPLIFIER OPERATION (CLASS A TRANSFORMER COUPLED)

Plate Voltage	250 Volts Max.
Grid Voltage	-2 Volts
Plate Current	0.2 Milliamperes
Plate Resistance	66,000 Ohms
Amplification Factor	100
Mutual Conductance	1,500 Micromhos

Direct Interelectrode Capacitances:

Grid No. 1 to Plate	2.0 puf
Grid No. 1 to cathode	6.0 puf
Plate to cathode	12.0 puf



JETEC DATA
 JOINT ELECTRON TUBE ENGINEERING COUNCIL
 COMMITTEE ON RECEIVING TUBES

Rel. 134B
 J5-6F5GT
 June 17, 1952

JETEC TYPE 6F5GT

TRIODE

MECHANICAL DATA

Coated unipotential cathode		
Outline drawing	9-17 or 9-47	Bulb T-9
Base	B6-81 or B7-7 or B7-84 or B7-59	intermediate shell octal short intermediate shell octal
Top cap.		C1-2 skirted miniature
Maximum diameter		1-9/32"
Maximum overall length		3-5/16"
Maximum seated height.		2-3/4"
Pin connections.		Basing 5M
*Pin 1 - No connection		Pin 5 - No connection
Pin 2 - Heater		Pin 7 - Heater
Pin 3 - No connection		Pin 8 - Cathode
Pin 4 - Plate		Top Cap- Grid

*Pin #1 omitted on Base Nos. B6-81 and B6-84

Mounting position. any

ELECTRICAL DATA

Ratings

Heater voltage (ac or dc)	6.3	volts
Maximum heater-cathode voltage	90	volts
Maximum plate voltage.	300	volts

Typical Operating Conditions and Characteristics, Class A1 Amplifier

Heater voltage	6.3	6.3	volts
Heater current	300	300	ma
Plate voltage.	100	250	volts
Grid voltage	-1.0	-2.0	volts
Plate resistance (approx.)	85,000	66,000	ohms
Transconductance	1150	1500	μmhos
Plate current.	0.4	0.9	ma
Amplification factor	100	100	

Refer to "Interpretation of Receiving Tube Ratings"