

ATELIERS BELVU
6BS5
BEAM POWER AMPLIFIER

Ateliers Belva 6BS5 is a 9-pin miniature type beam power amplifier providing high power sensitivity and high power output with comparatively low supply voltage. This tube is especially useful in audio frequency, video, and vertical deflection amplifiers particularly on receivers utilizing a wide-angle kinescope.

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3 volts
Current 0.75 amp.

Direct Interelectrode Capacitances:

Grid No. 1 to Plate 0.3 max uuf
Input 9.5 uuf
Output 4.5 uuf

Mechanical:

Mounting Position Any
Bulb T-6-1/2
Base Miniature Button 9-Pin

AF POWER AMPLIFIER

Typical Operation and Characteristics:

Plate Voltage	250	volts
Grid No. 2 (screen) Voltage	250	volts
Grid No. 1 (control grid) Voltage	-7.5	volts
Zero Signal Plate Current	50	ma
Zero Signal Grid No. 2 Current	6	ma
Amplification Factor	120	
Plate Resistance (approx)	17000	ohms
Transconductance	7000	umhos
Load Resistance	5000	ohms
Cathode Bias Resistor	340	ohms
AF Grid No. 1 Voltage (RMS)	5.35	volts
Total Harmonic Distortion	6 max	%
Max. Signal Power Output	4.5	watts
Plate Dissipation	12.5 max	watts
Grid No. 2 Dissipation	2 max	watts
Grid No. 1 Circuit Resistance:		
For Fixed Bias	0.1 max	megohm
For Cathode Bias	0.5 max	megohm

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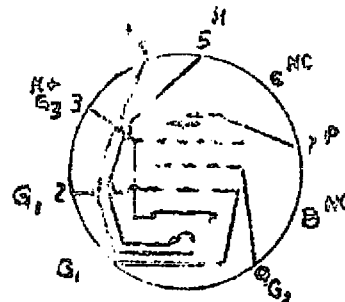
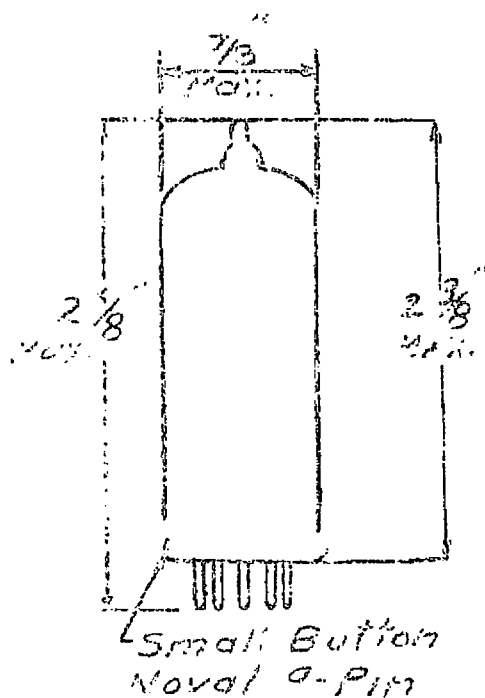
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Peak Heater-Cathode Voltage:

Heater negative with respect to cathode 100 volts
Heater positive with respect to cathode 100 volts

Dimensional Outline
6BS5

Socket Connections
Bottom View
(Basing No. 9BQ)



- Pin 1 - Grid 1
- Pin 2 - Grid 1
- Pin 3 - Cathode & Grid No. 3
- Pin 4 - Heater
- Pin 5 - Heater
- Pin 6 - No connection
- Pin 7 - Plate
- Pin 8 - No connection
- Pin 9 - Grid No. 2

Type 6BS5

AVERAGE PLATE CHARACTERISTICS

$E_p = 6.3$ Volts

$E_g = 250$ Volts

$E_{g2} = 0$

$E_{c1} = 0$

-2.5

-5

-7.5

-10

-15

Plate Current Milliamperes

Plate Voltage

OPERATION CHARACTERISTICS

Total Distortion - %

Grid No. 1 Signal
Volts RMS

Total Distortion

AF Grid #1

Power Output - Watts

$E_p = 6.3$ V
 $E_g = 250$ V
 $E_{g2} = -7.5$ V
 $R_{load} = 5000$ ohms