Ateliers Belvu 6G85 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) ......................... 17,000 ohms
  Transconductance .................................. 7,000 mhos
  Load Resistance .................................. 5,000 ohms
  Cathode Bias Resistor ............................. 140 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

from RETMA release #1249, Oct. 30, 1953
Peak Heater-Cathode Voltage:
Heater negative with respect to cathode ..... 100 volts
Heater positive with respect to cathode ..... 100 volts

Dimensional Outline 6355

Socket Connections
Bottom View
(Basing No. 9X)

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