

High-Mu Triode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 0.180 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode 100 max. volts

Heater positive with respect to cathode 100 max. volts

Direct Interelectrode Capacitances (Approx.):^a

Grid to plate 0.52 $\mu\mu\text{f}$

Grid to cathode, internal shield, and heater. 5.0 $\mu\mu\text{f}$

Plate to cathode, internal shield, and heater. 3.5 $\mu\mu\text{f}$

Heater to cathode 2.5^b $\mu\mu\text{f}$

Characteristics, Class A₁ Amplifier:

Plate Voltage 135 volts

Grid Voltage. -1.2 volts

Amplification Factor. 74

Plate Resistance (Approx.). 6300 ohms

Transconductance. 12000 μmhos

Plate Current 8.9 ma

Grid Voltage (Approx.) for plate $\mu\text{a} = 100$ -4.5 volts

Mechanical:

Operating Position. Any

Type of Cathode Coated Unipotential

Maximum Overall Length. 2-1/8"

Maximum Seated Length 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip) 1-1/2" $\pm$ 3/32"

Diameter. 0.650" to 0.750"

Dimensional Outline See *General Section*

Bulb. T5-1/2

Base. Small-Button Miniature 7-Pin (JEDEC No. E7-1)

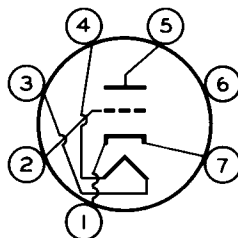
Basing Designation for BOTTOM VIEW. 7FP

Pin 1 - Cathode

Pin 2 - Grid

Pin 3 - Heater

Pin 4 - Heater



Pin 5 - Plate

Pin 6 - Internal

Shield

Pin 7 - Cathode



6FQ5A

AMPLIFIER — Class A₁

Maximum Ratings, *Design-Maximum Values*:

PLATE VOLTAGE.	200 max.	volts
GRID VOLTAGE:		
Negative-bias value.	50 max.	volts
CATHODE CURRENT.	22 max.	ma
PLATE DISSIPATION.	2.5 max.	watts

Maximum Circuit Values:

Grid-Circuit Resistance:

 For cathode-bias operation 1 max. megohm

^a With external shield JEDEC No.316 connected to cathode except as noted.

^b With external shield JEDEC No.316 connected to ground.

CURVES

shown under Type 6GK5 also apply to the 6FQ5A

