

High-Mu Triode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 ± 10%	volts
Current at 6.3 volts.	0.2	amp

Direct Interelectrode Capacitances:

	Without External Shield	With External Shield*	
Grid to plate	0.5 max.	0.5 max.	μf
Grid to cathode, internal shield, and heater.	3.2	3.2	μf
Plate to cathode, internal shield, and heater.	3.2	4	μf

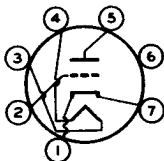
Characteristics, Class A₁ Amplifier:

Plate Voltage	200	volts
Grid Voltage.	-1	volt
Amplification Factor.	75	
Plate Resistance (Approx.).	8000	ohms
Transconductance.	9000	μmhos
Plate Current	10	ma
Grid Voltage (Approx.) for plate $\mu_a = 100$	-6	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"
Diameter.	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
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

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE	250 max.	volts
GRID VOLTAGE:		
Positive-bias value	0 max.	volts



6ES5

CATHODE CURRENT	22 max.	ma
PLATE DISSIPATION	2.2 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode . .	100 max.	volts
Heater positive with respect to cathode . .	100 max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance	1 max.	megohm
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^a With external shield JEDEC No.316 connected to cathode.

