



6AN4

HIGH-MU TRIODE

7-PIN MINIATURE TYPE  
For UHF TV service

6AN4

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage . . . . . 6.3 . . . . . ac or dc volts  
Current . . . . . 0.225 . . . . . amp

Direct Interelectrode Capacitances (Approx.):

	Without External Shield	With External Shield <sup>o</sup>	
Grid to plate . . . . .	1.7	1.7	μf
Grid to cathode and heater. . .	2.9	3.3	μf
Plate to cathode and heater . .	0.25	1.8	μf
Heater to cathode . . . . .	3	2.9 <sup>•</sup>	μf
Grid to cathode . . . . .	2.6	2.6 <sup>•</sup>	μf
Plate to cathode. . . . .	0.2	0.18 <sup>•</sup>	μf
Cathode to grid and heater. . .	5.5	5.7 <sup>♦</sup>	μf
Plate to grid and heater. . . .	1.8	3.4 <sup>♦</sup>	μf

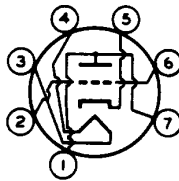
Characteristics, Class A<sub>1</sub> Amplifier:

Plate-Supply Voltage. . . . . 200 volts  
Cathode Resistor. . . . . 100 ohms  
Amplification Factor. . . . . 70  
Transconductance. . . . . 10000 μmhos  
Plate Current . . . . . 13 ma  
Grid Voltage (Approx.) for  
plate current of 20 μa. . . . . -7 volts

Mechanical:

Mounting Position . . . . . Any  
Maximum Overall Length. . . . . 1-3/4"  
Maximum Seated Length . . . . . 1-1/2"  
Length, Base Seat to Bulb Top (Excluding tip) . 1-1/8" ± 3/32"  
Maximum Diameter. . . . . 3/4"  
Dimensional Outline . . . . . See General Section  
Bulb. . . . . T5-1/2  
Base. . . . . Small-Button Miniature 7-Pin (JETEC No. E7-1)  
Basing Designation for BOTTOM VIEW. . . . . 7DK

Pin 1 - Plate  
Pin 2 - Grid  
Pin 3 - Heater  
Pin 4 - Heater



Pin 5 - Cathode  
Pin 6 - Grid  
Pin 7 - Plate

<sup>o</sup> With external shield JETEC No. 316 connected to cathode except as noted.  
<sup>•</sup> With external shield JETEC No. 316 connected to ground.  
<sup>♦</sup> With external shield JETEC No. 316 connected to grid.

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AMPLIFIER - Class A<sub>1</sub>

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE . . . . .	300	max.	volts
CATHODE CURRENT . . . . .	30	max.	ma
PLATE DISSIPATION . . . . .	4	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 <sup>▲</sup>	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:			
For fixed-bias operation. . . . .	0.1	max.	megohm
For cathode-bias operation. . . . .	0.5	max.	megohm

<sup>▲</sup> The dc component must not exceed 100 volts.