



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 ^o	
Grid to plate	1.7	1.7	μμf
Grid to cathode and heater . .	2.9	3.3	μμf
Plate to cathode and heater . .	0.25	1.8	μμf
Heater to cathode	3	2.9	μμf
Grid to cathode	2.6	2.6	μμf
Plate to cathode	0.2	0.18	μμf
Cathode to grid and heater . .	5.5	5.7	μμf
Plate to grid and heater	1.8	3.4	μμf

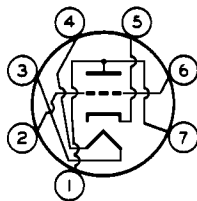
Characteristics, Class A₁ Amplifier:

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

^o With external shield JETEC No. 316 connected to cathode except as noted.
● With external shield JETEC No. 316 connected to ground.
◆ With external shield JETEC No. 316 connected to grid.

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AMPLIFIER - Class A₁

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 [▲]	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For fixed-bias operation.	0.1	max.	megohm
For cathode-bias operation.	0.5	max.	megohm

[▲] The dc component must not exceed 100 volts.