

Medium-Mu Twin Triode

9-PIN MINIATURE TYPE

For Use in Cascode-Type Circuits of VHF TV Tuners

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) $6.3 \pm 10\%$ volts

Current at 6.3 volts. 0.4 amp

Direct Interelectrode Capacitances (Approx.):⁰

	Unit No. 1	Unit No. 2	
Grid to plate	1.9	1.9	μf
Grid to cathode, internal shield, and heater.	3.4	—	μf
Plate to cathode, internal shield, and heater.	2.4	—	μf
Cathode to heater	2	2	μf
Cathode to grid, internal shield, and heater.	—	5.2	μf
Plate to grid, internal shield, and heater.	—	4	μf

Characteristics, Class A₁ Amplifier (Each Unit):

Plate Voltage 100 volts

Grid Voltage. -1.2 volts

Amplification Factor. 33

Plate Resistance (Approx.). 2500 ohms

Transconductance. 13000 μmhos

Plate Current 15 ma

Grid Voltage (Approx.) for transconductance (μmhos) = 70 -6 volts

Mechanical:

Operating Position. Any

Maximum Overall Length. 2-3/16"

Maximum Seated Length 1-15/16"

Length, Base Seat to Bulb Top (Excluding tip). 1-9/16" $\pm$ 3/32"

Diameter. 0.750" to 0.875"

Dimensional Outline See *General Section*

Bulb. T6-1/2

Base. Small-Button Noval 9-Pin (JEDEC No. E9-1)

Basing Designation for BOTTOM VIEW. 9AJ

Pin 1—Plate of
Unit No. 2

Pin 2—Grid of
Unit No. 2

Pin 3—Cathode of
Unit No. 2

Pin 4—Heater

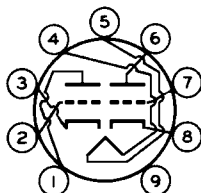
Pin 5—Heater

Pin 6—Plate of
Unit No. 1

Pin 7—Grid of
Unit No. 1

Pin 8—Cathode of
Unit No. 1

Pin 9—Internal
Shield



6FW8

AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE.	250 [■] max.	volts
CATHODE CURRENT.	22 max.	ma
PLATE DISSIPATION.	2.2 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.	0.5 max.	megohm
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[○] With external shield JEDEC No.315 connected to pin 9.

[■] In cathode-drive circuits with direct-coupled drive, it is permissible for this voltage to be as high as 300 volts.

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

