

Medium-Mu Twin Triode

9-PIN MINIATURE TYPE

For TV Tuners Using Direct-Coupled Cathode-Drive Circuits

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:^a

	Unit No. 1	Unit No. 2	
Grid to plate	1.2	1.2	μf
Grid to cathode, internal shield, and heater.	2.6	-	μf
Plate to cathode, internal shield, and heater.	1.2	-	μf
Plate to cathode.	0.12	0.12	μf
Heater to cathode	2.6	2.6	μf
Cathode to grid, internal shield, and heater.	-	5	μf
Plate to grid, internal shield, and heater.	-	2.2	μf
Plate of unit No.1 to plate of unit No.2.	0.010 max.		μf
Plate of unit No.2 to plate and grid of unit No.1	0.024 max.		μf

Characteristics, Class A₁ Amplifier (Each Unit):

Plate Supply Voltage.	150	volts
Cathode Resistor.	220	ohms
Amplification Factor.	36	
Plate Resistance (Approx.).	5300	ohms
Transconductance.	6800	μmhos
Plate Current	10	ma
Grid Voltage (Approx.) for plate $\mu\text{a} = 100$	-7	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	2-3/16"
Maximum Sealed 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 <i>General Section</i>
Bulb.	T6-1/2
Base.	Small-Button Noval 9-Pin (JEDEC No.E9-1)

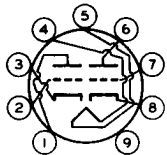
← Indicates a change.



6BZ7

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

AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	250 ^b max.	volts
PLATE DISSIPATION.	2 max.	watts
CATHODE CURRENT.	20 max.	ma
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	200 ^b max.	volts
Heater positive with respect to cathode.	200 ^c max.	volts

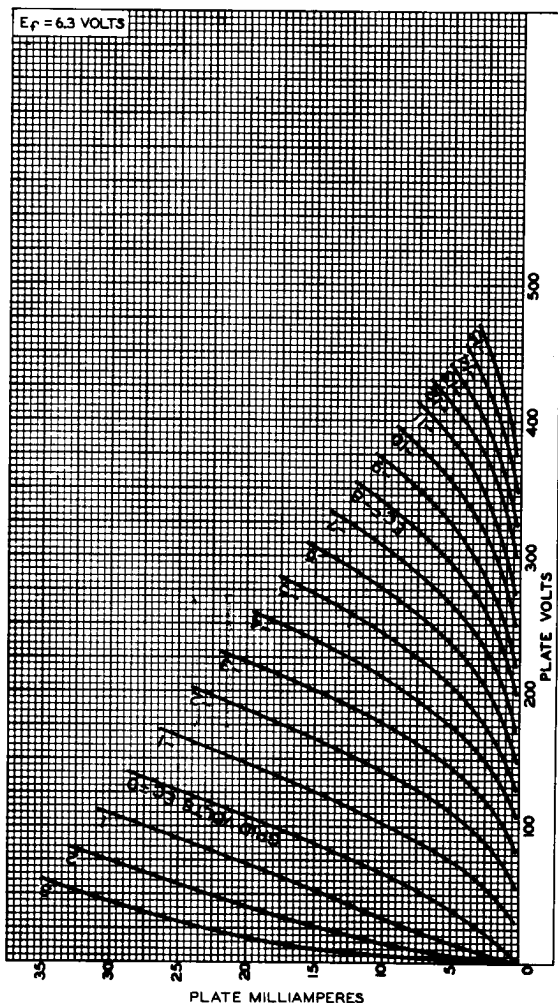
→ Maximum Circuit Values:

Grid-Circuit Resistance.	0.5 max.	megohm
----------------------------------	----------	--------

^a With external shield JEDEC No.315 connected to internal shield.
 → ^b Under cutoff conditions in direct-coupled cathode-drive circuits, it is permissible for this voltage to be as high as 300 volts.
^c The dc component must not exceed 100 volts.

→ Indicates a change.

AVERAGE PLATE CHARACTERISTICS Each Unit



92CM-9231

