Sharp-Cutoff Dual Tetrode

10-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings *(Design-Maximum Values):*				
Voltage (AC or DC)			6.3 ± 0.6	volts
Current at heater volts = 6.3			0.400	amp
Peak heater-cathode voltage (Each unit):				
Heater negative with respect to cathode			100 max.	volts
Heater positive with respect to cathode			100 max.	volts
Direct Interelectrode Capacitances:[a]	*Unit No.1*	*Unit No.2*		
Grid No.1 to plate	0.055 max.	0.06 max.		μμf
Grid No.1 to cathode & internal shield, grid No.2, and heater	–	4.2		μμf
Grid No.1 to cathode, grid No.2, cathode of unit No.2 & internal shield, and heater	4.4	–		μμf
Plate to cathode & internal shield, grid No.2, and heater	–	2.2		μμf
Plate to cathode, grid No.2, cathode of unit No.2 & internal shield, and heater	2.2	–		μμf
Heater to cathode	4.2[b]	4.8[b]		μμf
Plate of unit No.1 to plate of unit No.2	0.003 max.			μμf
Grid No.1 of unit No.1 to grid No.1 of unit No.2	0.001 max.			μμf
Grid No.1 of unit No.1 to plate of unit No.2	0.001 max.			μμf
Grid No.1 of unit No.2 to plate of unit No.1	0.032 max.			μμf

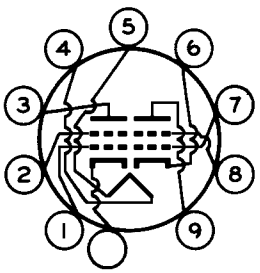
Characteristics, Class A_1 Amplifier (Each Unit):

Plate Voltage	125	volts
Grid-No.2 Voltage	80	volts
Grid-No.1 Voltage	-1	volt
Plate Resistance (Approx.)	0.1	megohm
Transconductance	8000	μmhos
Plate Current	10	ma
Grid-No.2 Current	1.5	ma
Grid-No.1 Voltage (Approx.) for plate μa = 20	-6	volts

Mechanical:

Operating Position. . . . . Any
Type of Cathodes. . . . . Coated Unipotential
Maximum Overall Length. . . . . 2.190"
Maximum Seated Length . . . . . 1.940"
Length, Base Seat to Bulb Top (Excluding tip). 1.460" to 1.660"
Diameter. . . . . 0.750" to 0.875"
Bulb. T6-1/2
Base. . . . . Small-Button Miniature 10-Pin (JEDEC No.E10-73)
Basing Designation for BOTTOM VIEW. 10F

Pin 1 - Grid No.1 of Unit No.2
Pin 2 - Grid No.2 of Unit No.2
Pin 3 - Plate of Unit No.2
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Cathode of Unit No.1
Pin 7 - Grid No.1 of Unit No.1



CENTER PIN

Pin 8 - Grid No.2 of Unit No.1
Pin 9 - Plate of Unit No.1
CENTER PIN - Cathode of Unit No.2, Internal Shield

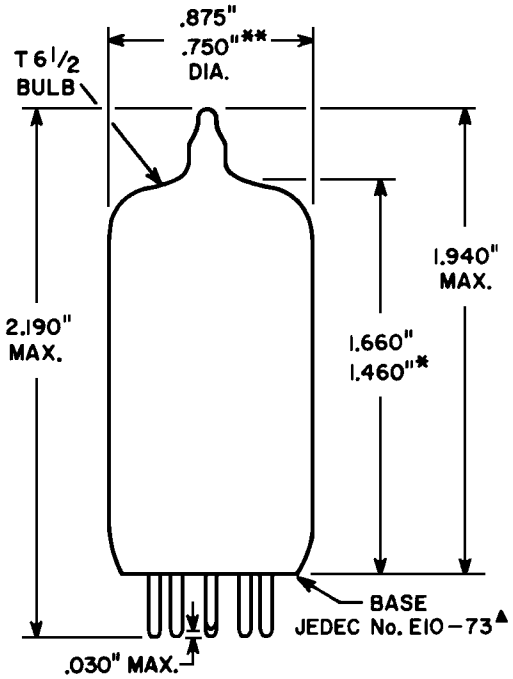
AMPLIFIER — Class A_1

Unless Otherwise Specified, Values are for Each Unit

Maximum Ratings, *Design-Maximum Values:*

PLATE VOLTAGE. . . . . 250 max. volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE . . . 180 max. volts
GRID-No.2 VOLTAGE. . . . . .See *Grid-No.2 Input Rating Chart* at front of Receiving Tube Section
CATHODE CURRENT. . . . . 20 max. ma
GRID-No.2 INPUT:
For grid-No.2 voltages up to 90 volts. . . 0.5 max. watt
For grid-No.2 voltages between 90 volts and 180 volts . . . . . .See *Grid-No.2 Input Rating Chart* at front of Receiving Tube Section
PLATE DISSIPATION:
Either plate . . . . . 1.5 max. watts
Both plates (Both units operating) . . . . 2.5 max. watts

[a] With external shield JEDEC No.315 connected to cathode of unit under test except as noted.
[b] With external shield JEDEC No.315 connected to ground.



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** APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.

* MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY A RING GAUGE OF 0.438" INSIDE DIAMETER.

▲ THIS BASE IS IDENTICAL TO BASE JEDEC No. E9-1 (SMALL-BUTTON NOVAL 9-PIN) EXCEPT THAT IT HAS A TENTH PIN WHICH IS SHORTER THAN THE OTHERS AND LOCATED AT THE CENTER.