



2CY5

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SHARP-CUTOFF TETRODE

7-PIN MINIATURE TYPE

*Intended for use in equipment having
series heater-string arrangement***GENERAL DATA****Electrical:**

Heater, for Unipotential Cathode:

Voltage	2.4		ac or dc volts
Current	0.6		amp
Warm-up time (Average).	11		sec

*For definition of heater warm-up time and method of determining it, see sheet HEATER WARM-UP TIME MEASUREMENT at front of this Section.*Direct Interelectrode Capacitances (Approx.):⁰

Grid No.1 to plate.	0.03	μ f
Grid No.1 to cathode & internal shield, grid No.2, and heater.	4.5	μ f
Plate to cathode & internal shield, grid No.2, and heater.	3	μ f

Characteristics, Class A₁ Amplifier:

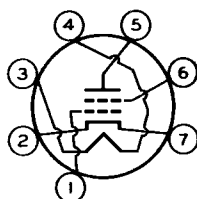
Plate Voltage	125	volts
Grid-No.2 (Screen-Grid) Voltage	80	volts
Grid-No.1 (Control-Grid) Voltage.	-1	volt
Plate Resistance (Approx.).	0.1	megohm
Transconductance.	8000	μ mhos
Plate Current	10	ma
Grid-No.2 Current	1.5	ma
Grid-No.1 Voltage (Approx.) for plate current of 20 μ a.	-6	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" $\pm$ 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. 7EW

Pin 1-Grid No.1
Pin 2-Cathode,
Internal
Shield
Pin 3-Heater
Pin 4-Heater



Pin 5-Plate
Pin 6-Grid No.2
Pin 7-Cathode,
Internal
Shield

⁰: See next page.



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AMPLIFIER — Class A,

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	150 max. volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . .	150 max. volts
GRID-No.2 VOLTAGE	<i>See Grid-No.2 Input Rating Chart at front of Receiving Tube Section</i>

GRID-No. 1 (CONTROL-GRID) VOLTAGE:

Positive bias value	0 max.	volts
CATHODE CURRENT	15 max.	ma

GRID-No. 2 INPUT:

For grid-No.2 voltages
up to 75 volts. 0.4 max. watt

For grid-No.2 voltages
between 75 and 150
volts See Grid-No.2 Input Rating Chart
at front of Receiving Tube Section

PLATE DISSIPATION 1 max. watt

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode .	100 max.	volts
Heater positive with respect to cathode .	100 max.	volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance.	0.5 max. megohm
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⁰ With external shield JETEC No.316 connected to cathode.