



I2AC6

REMOTE-CUTOFF PENTODE

7-PIN MINIATURE TYPE

For use in automobile radio receivers operating directly from 6-cell storage-battery systems

I2AC6

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage range (AC or DC). 10 to 15.9 volts

This voltage range is on an absolute basis. For longest life, it is recommended that the heater be operated within the voltage range of 11 to 14 volts.

Current (Approx.)
at 12.6 volts 0.15 amp

Direct Interelectrode Capacitances (Approx.):

	<i>Without External Shield</i>	<i>With External Shield^o</i>	
Grid No.1 to plate.	0.005	0.004	$\mu\mu\text{f}$
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater.	4.3	4.3	$\mu\mu\text{f}$
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater.	5	5	$\mu\mu\text{f}$

Characteristics, Class A₁ Amplifier:

Heater Voltage.	12.6	volts
Plate Voltage	12.6	volts
Grid No.3	<i>Connected to cathode at socket</i>	
Grid-No.2 Voltage	12.6	volts
Grid-No.1 Voltage	0	volts
Grid-No.1 Resistor (Bypassed)	2.2	megohms
Plate Resistance (Approx.)	0.5	megohm
Transconductance, Grid No.1 to Plate.	730	μmhos
Plate Current	550	μa
Grid-No.2 Current	200	μa
Grid-No.1 Voltage (Approx.) for transconductance (μmhos) = 10	-5.2	volts
Grid-No.3 Voltage (Approx.) for transconductance (μmhos) = 10	-3.7	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"
Diameter.	0.650" to 0.750"
Dimensional Outline	<i>See General Section</i>
Bulb.	T5-1/2
Base.	Small-Button Miniature 7-Pin (JEDEC No.E7-1)

^o with external shield JEDEC No.316 connected to cathode.

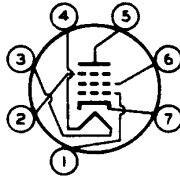
12AC6



REMOTE-CUTOFF PENTODE

Basing Designation for BOTTOM VIEW. 7BK

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



Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid No.2
Pin 7 - Cathode

AMPLIFIER — Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	30 max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE.	30 max.	volts
CATHODE CURRENT.	20 max.	ma
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode .	30 max.	volts
Heater positive with respect to cathode .	30 max.	volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance	10 max.	megohms
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