



19J6

MEDIUM-MU TWIN TRIODE

Miniature Type

TENTATIVE DATA

RCA-19J6 is a miniature type of medium-mu twin triode intended especially for converter service in ac/dc FM and AM receivers. In such service, one triode unit may be used as a mixer, and the other as an oscillator. The 19J6 may also be used for oscillator, amplifier, or mixer service in television receivers of the "transformerless" type.

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:	
Voltage (AC or DC)	18.9 . . . volts
Current	0.15 . . . ampere
Direct Interelectrode Capacitances (Each unit approx.) 0:	
Grid to Plate	1.5 . . . $\mu\mu\text{f}$
Grid to Cathode	2.0 . . . $\mu\mu\text{f}$
Plate to Cathode	0.4 . . . $\mu\mu\text{f}$

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Height	1-7/8"
Length from Base Seat to Bulb Top (excluding tip)	1-1/2" $\pm$ 3/32"
Maximum Diameter	3/4"
Bulb	T-5-1/2
Base	Small-Button Miniature 7-Pin

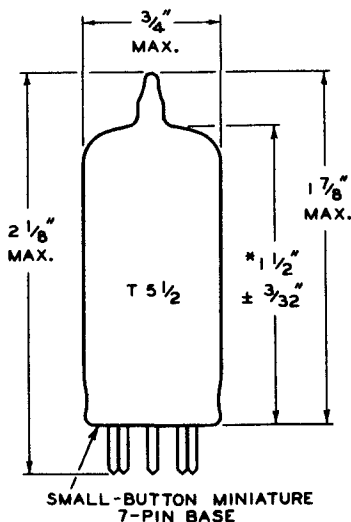
CLASS A₁ AMPLIFIER

Values are for each unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max. volts
PLATE DISSIPATION	1.5 max. watts
PEAK HEATER-CATHODE VOLTAGE:	
Heater negative with respect to cathode	90 max. volts
Heater positive with respect to cathode	90 max. volts

DIMENSIONAL OUTLINE



* MEASURED FROM BASE SEAT TO BULB-TOP LINE
AS DETERMINED BY RING GAUGE OF 7/16" I.D.

CLASS A₁ AMPLIFIER (Cont'd)

Characteristics:

Plate Voltage	100 . . . volts
Cathode-Bias Resistor**	50 $\pm$. . . ohms
Amplification Factor	38
Plate Resistance	7100 . . . ohms
Transconductance	5300 . . . micromhos
Plate Current	8.5 . . . ma

MIXER SERVICE

Values are for each unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max. volts
PLATE DISSIPATION	1.5 max. watts
PEAK HEATER-CATHODE VOLTAGE:	
Heater negative with respect to cathode	90 max. volts
Heater positive with respect to cathode	90 max. volts

Typical Operation:

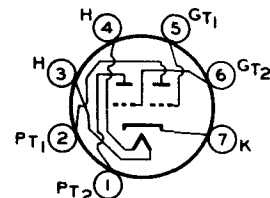
Plate Voltage	150 . . . volts
Cathode-Bias Resistor**	810 . . . ohms
Oscillator Peak Voltage	3 . . . volts
Plate Resistance	10200 . . . ohms
Conversion Transconductance	1900 . . . micromhos
Short-Circuit Input Conductance at 100 Mc.	96 . . . micromhos
Plate Current	4.8 . . . ma

0 With no external shield.

** Under maximum rated conditions, the resistance in the grid circuit should not exceed 0.5 megohm with cathode bias. Operation with fixed bias is not recommended.

♦ Value is for both units operating at the specified conditions.

SOCKET CONNECTIONS Bottom View

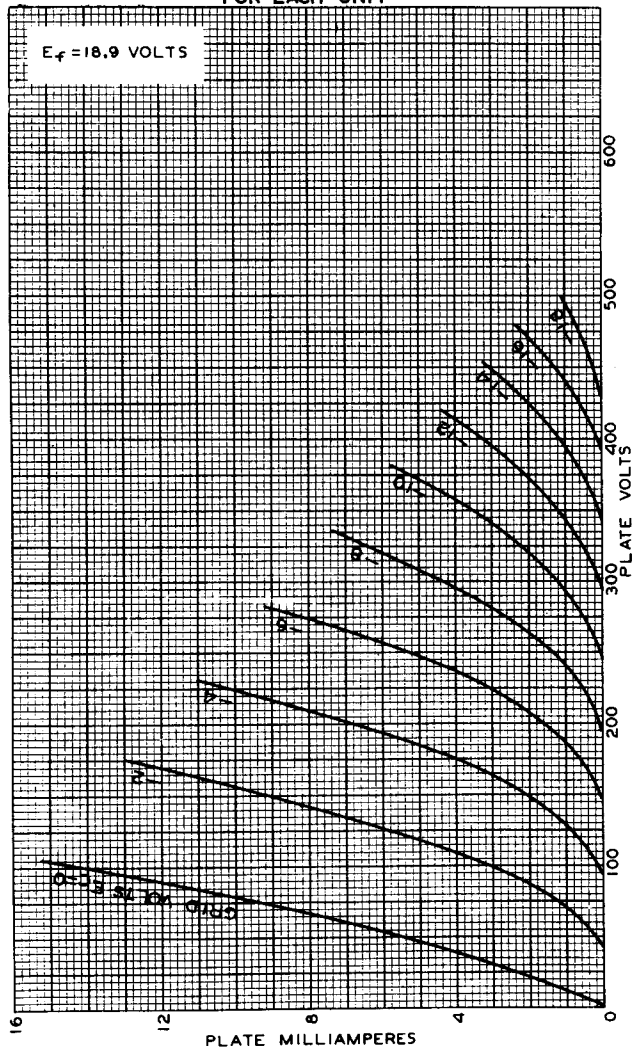


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- PIN 1 - PLATE OF TRIODE NO. 2
- PIN 2 - PLATE OF TRIODE NO. 1
- PIN 3 - HEATER
- PIN 4 - HEATER
- PIN 5 - GRID OF TRIODE NO. 1
- PIN 6 - GRID OF TRIODE NO. 2
- PIN 7 - CATHODE

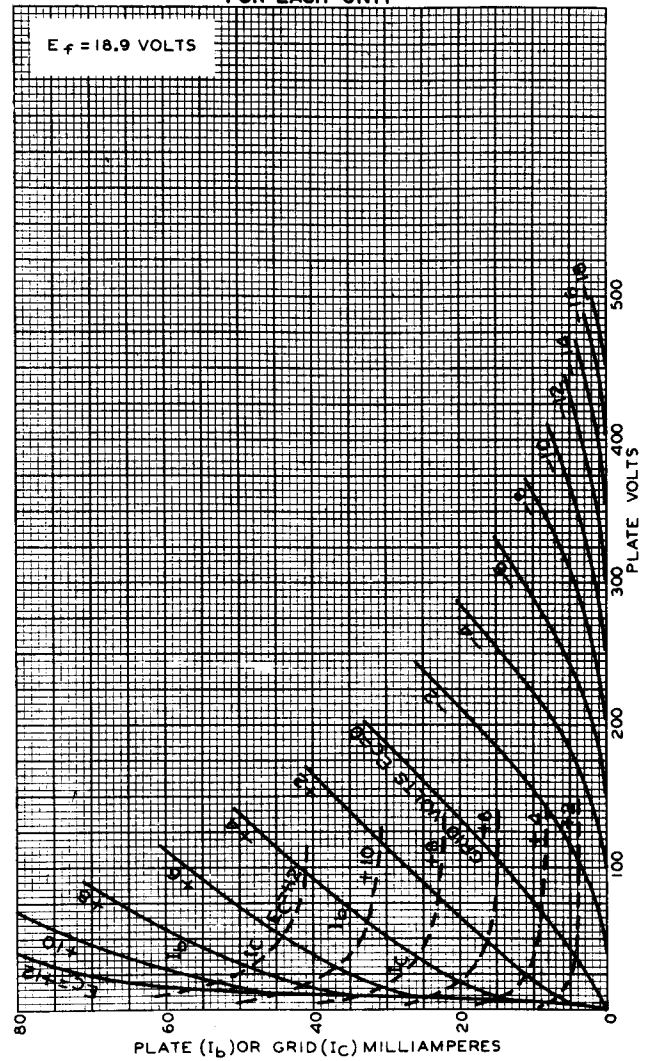


AVERAGE PLATE CHARACTERISTICS
FOR EACH UNIT



92CM-7060

AVERAGE PLATE CHARACTERISTICS
FOR EACH UNIT



92CM-7061