

# 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 1916 may also be used for oscillator, amplifier, or mixer service in television receivers of the "transformerless" type.

# GENERAL DATA

# Electrical:

Heater. for Unipo	otenti	ial Ca	thode:				
Voltage (AC or	DC) .				18.9	v	olts
Current Direct Interelect					0.15	aп	pere
Direct Interelect	trode	Capac	itances	(Each	unit	approx.	)0:
Grid to Plate.					1.5		μμτ
Grid to Cathode	e				2.0		μμτ
Plate to Cathod	de				0.4		$\mu\mu$ †

Mechanica!:		
Mounting Position		Any
Maximum Overall Length		2-1/8"
		1-7/8"
Length from Base Seat to		
Bulb Top (exclud:	ng	tip)1-1/2" ± 3/32"
Maximum Diameter	•	3/4"
Buid	•	T-5-1/2 Small-Button Miniature 7-Pin
base		Small-Button Milliature /-Fin

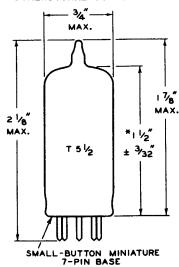
# CLASS A | AMPLIFIER

#### 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 A, AMPLIFIER (Cont'd)

#### Characteristics:

P	late	Vol-	tage	٠.													100			volts
Ċ	atho	de-B	ias	Re	sis	to	r*:	*									50+			ohms
A	mpli	fica	tior	١F٥	act	οr		•	•	•			٠				38			
P	late	Res	ista	inc	е.	•	•	٠	•	•	•	٠	٠	٠	٠	٠	7100	٠	_: _	ohms
Ţ	rans	cond	ucta	ance	е.	•	•	•	•	•	٠	•	•	٠	•	•	5300	1	mic	romhos
P	late	cur	rent				•					•	•	•		•	8.0			ma

# MIXER SERVICE

Values are for each unit

#### Maximum Ratings, Design-Center Values:

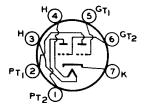
PLATE VOI	.TAGE						٠	300	max.	voits
PLATE DI	SSIPATION	l				٠		1.5	max.	watts
PEAK HEA'			TAG	E:						
Heater	negative	with								
	resp	ect to	са	thoc	le.		٠	90	max.	volts
Heater	positive	with								
	resp	ect to	ca	thod	e.			90	max.	volts

### Typical Operation:

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

With no external shield.

# SOCKET CONNECTIONS Bottom View



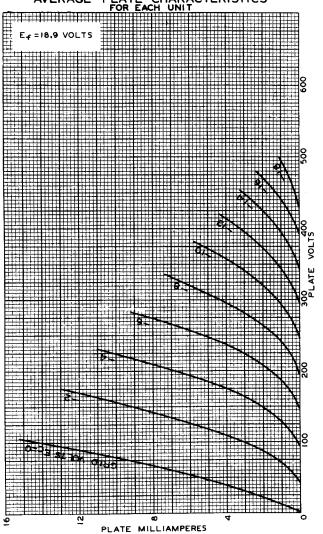
**7BF** 

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

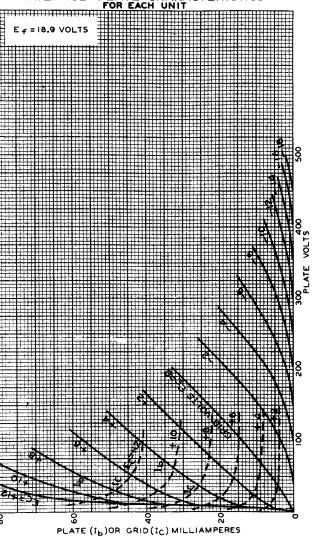
<sup>\*\*</sup> Under maximum rated conditions, the resistance in the grid circuit should not exceed 0.5 megohm with cathode bias. Operation with fixed bias is not recommended.

Value is for both units operating at the specified conditions.





# AVERAGE PLATE CHARACTERISTICS FOR EACH UNIT



92CM-7060

92CM-7061