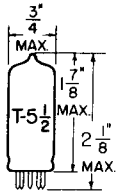
TUNG-SOL

DOUBLE TRIODE

MINIATURE TYPE

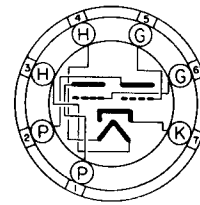


GLASS BULB

UNIPOTENTIAL CATHODE

HEATER
18.9 VOLTS 150 MA.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON
7 PIN BASE
7BF

THE 19J6 IS A TWIN TRIODE HAVING TWO PLATES AND TWO GRIDS WITH A COMMON CATHODE, USING THE MINIATURE CONSTRUCTION. IT MAY BE OPERATED IN PARALLEL OR PUSH-PULL. WITH THE GRIDS IN A PUSH-PULL ARRANGEMENT AND THE PLATES IN PARALLEL, THE 19J6 IS PARTICULARLY APPLICABLE AS A MIXER AT FREQUENCIES AS HIGH AS 600 MEGACYCLES. IT IS ALSO USEFUL AS AN OSCILLATOR.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITH NO EXTERNAL SHIELD

	EACH UNIT	
GRID TO PLATE: (G TO P)	1.5	μμf
GRID TO CATHODE: (G TO K)	2	μμf
PLATE TO CATHODE: (P TO K)	0.4	μμf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	18.9	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM PLATE DISSIPATION	1.5	WATTS
MAXIMUM GRID CIRCUIT RESISTANCE (SELF BIAS)	0.5	MEGOHM

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER - EACH UNIT

HEATER VOLTAGE	18.9	VOLTS
HEATER CURRENT	150	MA.
PLATE VOLTAGE	100	VOLTS
CATHODE BIAS RESISTOR[A]	50[B]	OHMS
PLATE CURRENT	8.5	MA.
PLATE RESISTANCE	7 100	OHMS
TRANSCONDUCTANCE	5 300	μMHOS
AMPLIFICATION FACTOR	38	

[A] FIXED BIAS OPERATION NOT RECOMMENDED.

[B] VALUE IS FOR BOTH UNITS OPERATING AT THE SPECIFIED CONDITIONS.

CONTINUED ON FOLLOWING PAGE

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CONTINUED FROM PRECEDING PAGE

MIXER SERVICE - EACH UNIT

HEATER VOLTAGE	18.9	VOLTS
HEATER CURRENT	150	MA.
PLATE VOLTAGE	150	VOLTS
CATHODE-BIAS RESISTOR[A]	810[B]	OHMS
OSCILLATOR PEAK VOLTAGE	3	VOLTS
PLATE RESISTANCE	10 200	OHMS
CONVERSION TRANSCONDUCTANCE	1 900	µMHOS
SHORT-CIRCUIT INPUT CONDUCTANCE AT 100 MC	96	µMHOS
PLATE CURRENT	4.8	MA.

[A] FIXED BIAS OPERATION NOT RECOMMENDED.

[B] VALUE IS FOR BOTH UNITS OPERATING AT THE SPECIFIED CONDITIONS.

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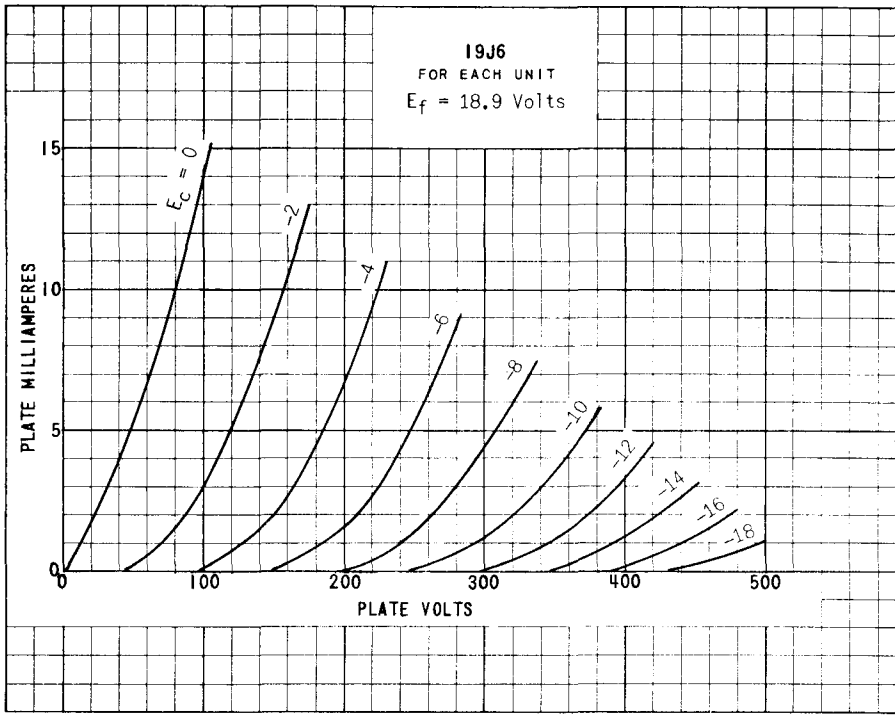

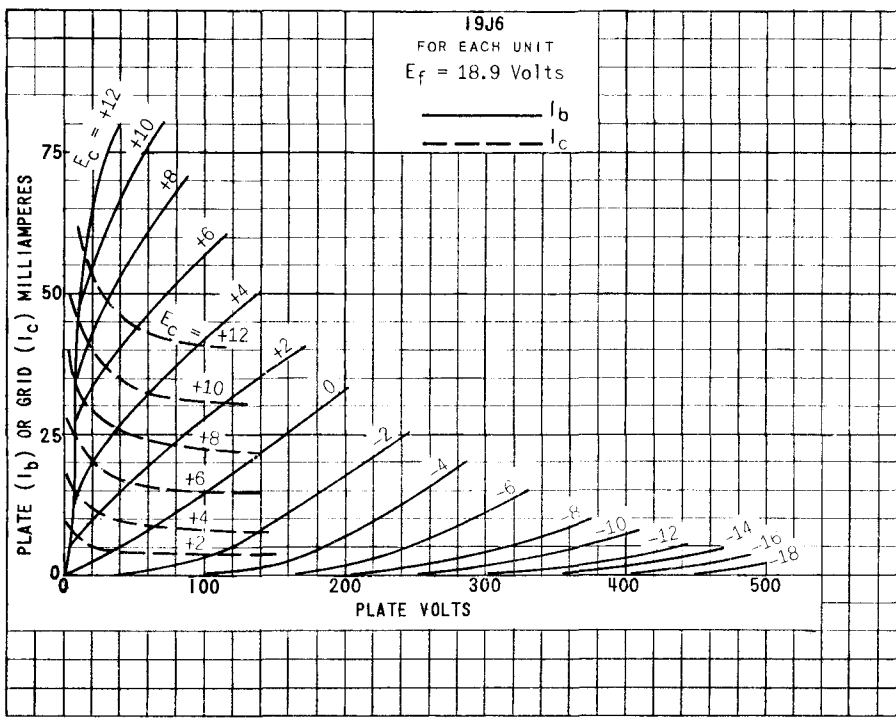

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