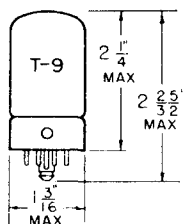


TUNG-SOL

TRIODE



GLASS BULB

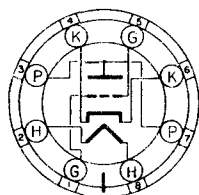
UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 150 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

LOCK-IN 8 PIN BASE

THE 7E5 IS A HEATER-CATHODE TYPE SHARP CUT-OFF VOLTAGE AMPLIFIER USING THE LOCK-IN CONSTRUCTION. IT IS CHARACTERIZED BY MODERATELY HIGH TRANSCONDUCTANCE AND RELATIVELY LOW INTERELECTRODE CAPACITANCES AND LOAD INDUCTANCE MAKING IT SUITABLE FOR HIGH FREQUENCY CIRCUITS. IN ADDITION IT IS ECONOMICAL OF HEATER POWER.

DIRECT INTERELECTRODE CAPACITANCES

WITH RMA SHIELD #308 CONNECTED TO CATHODE

GRID TO PLATE: (G TO P)	1.5	μ f
INPUT: G TO (H+K)	3.6	μ f
OUTPUT: P TO (H+K)	2.8	μ f

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M6-210

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM-HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	250	VOLTS
MAXIMUM PLATE CURRENT	16	MA.
MAXIMUM GRID CURRENT	6	MA.
MAXIMUM PLATE DISSIPATION	4	WATTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	150	MA.
PLATE CURRENT	180	VOLTS
GRID VOLTAGE	-3	VOLTS
PLATE RESISTANCE	12 000	OHMS
TRANSCONDUCTANCE	3 000	μ MHOS
AMPLIFICATION FACTOR	36	
PLATE CURRENT	5.5	MA.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

UHF OSCILLATOR - 750 MEGACYCLE

HALF-WAVE FOUR-LINE OSCILLATOR IN WHICH THE LINE SHORTENING,
DUE TO THE TUBE, IS APPROXIMATELY 45% OF A HALF-WAVE LENGTH.

HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	150	150	MA.
PLATE VOLTAGE	200	250	VOLTS
GRID RESISTOR	10 000	20 000	OHMS
DEVELOPED BIAS	2.5	3.5	VOLTS
PLATE CURRENT	11	13	MA.

UHF OSCILLATOR OR POWER AMPLIFIER 300 MEGACYCLE

QUARTER WAVE FOUR-LINE OSCILLATOR IN WHICH THE LINE SHORTENING
IS APPROXIMATELY 30% OF A QUARTER WAVE LENGTH.

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	150	MA.
PLATE SUPPLY VOLTAGE ^A	150	VOLTS
GRID RESISTOR (APPROX.)	1 700	OHMS
PLATE CURRENT	16	MA.
GRID CURRENT	6	MA.
POWER OUTPUT	0.2	WATT

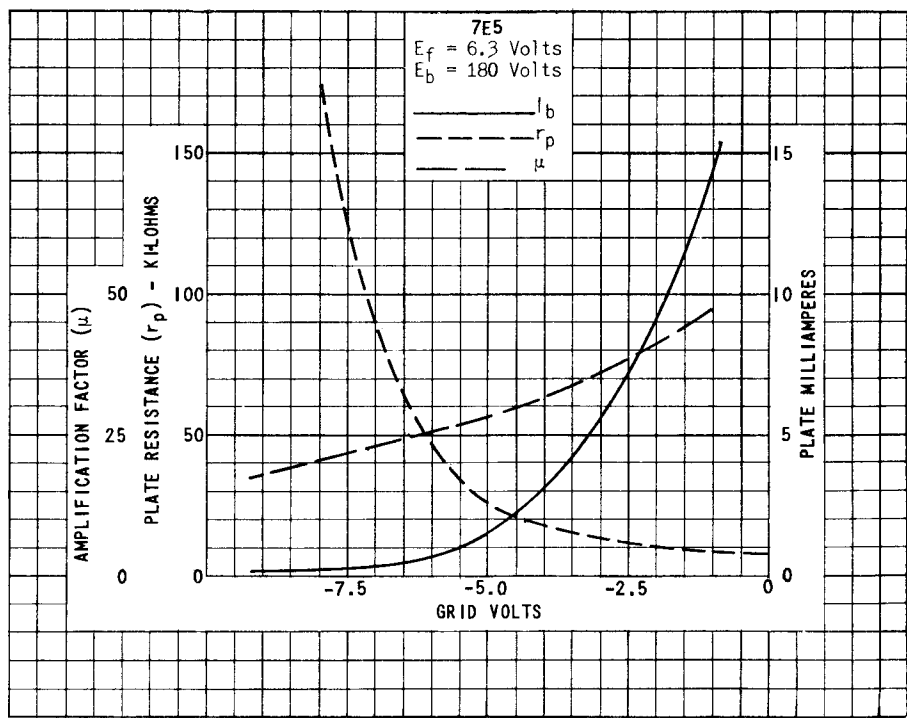
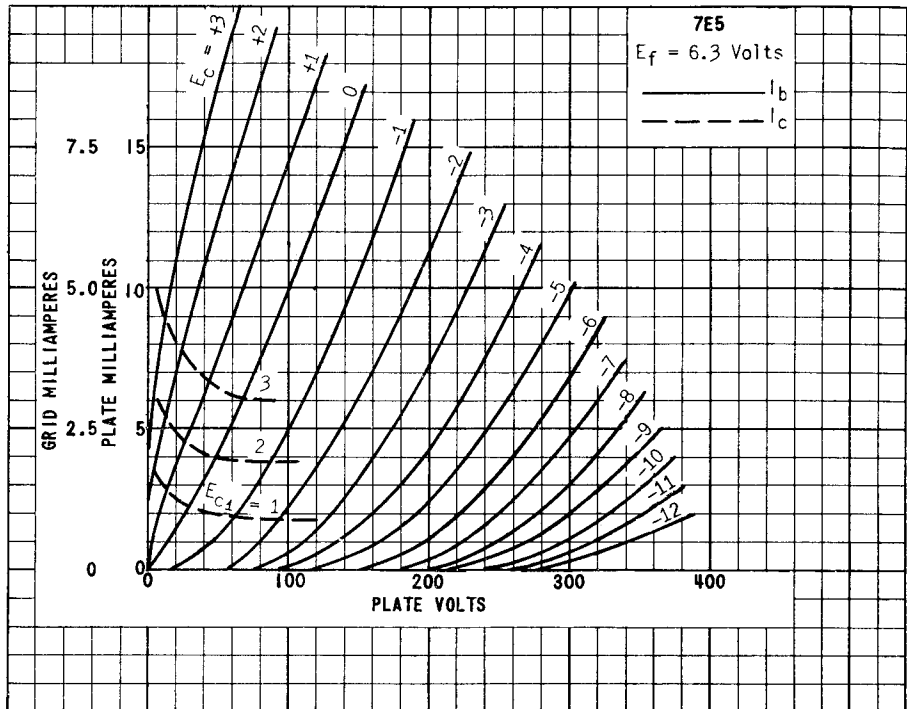
^ASUPPLIED THROUGH 3000 OHM DROPPING RESISTOR.

LOCAL OSCILLATOR FOR 300 MEGACYCLE MIXER DRIVING

QUARTER WAVE FOUR-LINE OSCILLATOR IN WHICH THE LINE SHORTENING
IS APPROXIMATELY 30% OF A QUARTER WAVE LENGTH.

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	150	MA.
PLATE SUPPLY VOLTAGE ^A	90	VOLTS
GRID VOLTAGE	-7	VOLTS
GRID RESISTOR	3 000	OHMS
MIXER DEVELOPED BIAS	-5.3	VOLTS
PLATE CURRENT	7.8	MA.

^ASUPPLIED THROUGH 3000 OHM DROPPING RESISTOR



PRINTED IN U. S. A.

PLATE
2119
DEC. 1,
1948