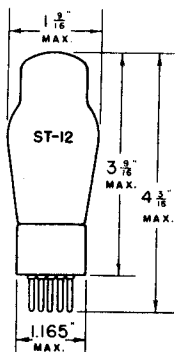
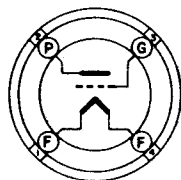


TUNG-SOL

TRIODE AMPLIFIER



COATED FILAMENT
2.0 VOLTS 0.06 AMPERE
DC



4D

GLASS BULB

SMALL 4 PIN BASE

THE TUNG-SOL 30 IS A GENERAL PURPOSE FILAMENT TYPE TRIODE DESIGNED FOR SERVICE IN BATTERY OPERATED RECEIVERS. WITH THE EXCEPTION OF CAPACITANCES ITS RATINGS AND CHARACTERISTICS ARE IDENTICAL WITH THOSE OF THE 1H4G.

OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

PLATE VOLTAGE	90	135	180 ^{MAX.}	VOLTS
GRID VOLTAGE	-4.5	-9.0	-13.5	VOLTS
GRID CIRCUIT RESISTANCE ^{MAX.}	2	2	2	MEGOHMS
PLATE CURRENT	2.5	3.0	3.1	MA.
PLATE RESISTANCE	11 000	10 300	10 300	OHMS
TRANSCONDUCTANCE	850	900	900	μMHOS
AMPLIFICATION FACTOR	9.3	9.3	9.3	

DETECTOR

	BIASED			GRID LEAK	
PLATE VOLTAGE	90	135	180 ^{MAX.}	45 ^{MAX.}	VOLTS
GRID VOLTAGE	-9 ^A	-13.5 ^A	-18 ^A	RETURN TO (+) FILAMENT	VOLTS
PLATE CURRENT ^P	ADJUST TO 0.2 MA. WITH NO INPUT SIGNAL			-	
GRID LEAK	-	-	-	1 TO 5	MEGOHMS
GRID CONDENSER	-	-	-	250	μμf

^A APPROXIMATE, GRID RETURN TO NEGATIVE END OF FILAMENT.

^P WITH MAXIMUM SIGNAL THE AVERAGE DC PLATE CURRENT SHOULD NOT EXCEED 2.0 MA.

TUNG-SOL

CLASS B₂ AMPLIFIER

PLATE VOLTAGE	180 ^{MAX.}	VOLTS
PEAK PLATE CURRENT PER TUBE	50 ^{MAX.}	MA.
ZERO-SIGNAL PLATE CURRENT PER TUBE	1.5 ^{MAX.}	MA.

TYPICAL OPERATING CONDITIONS

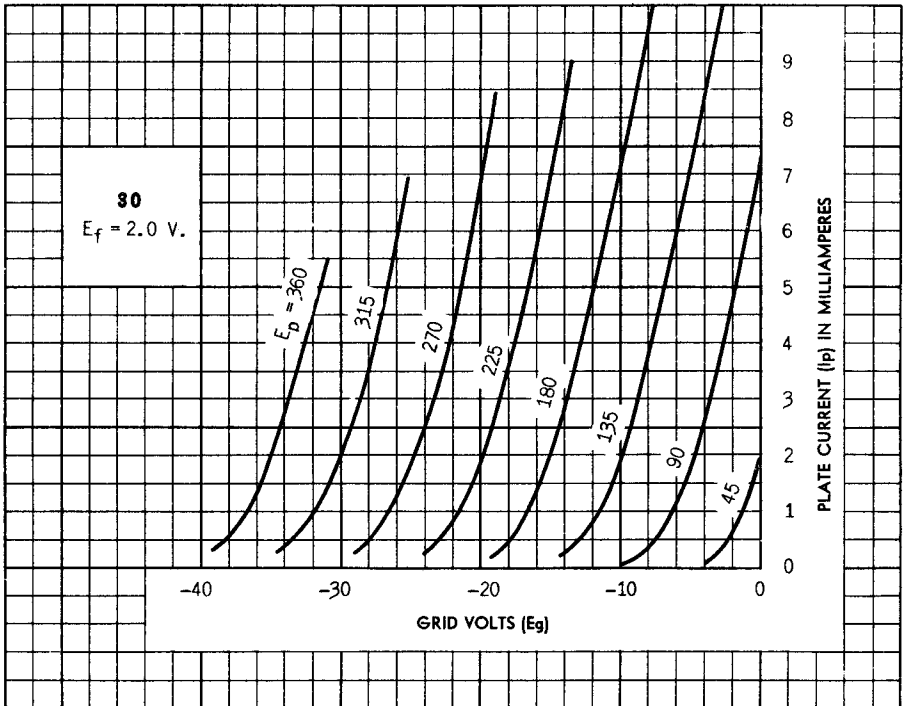
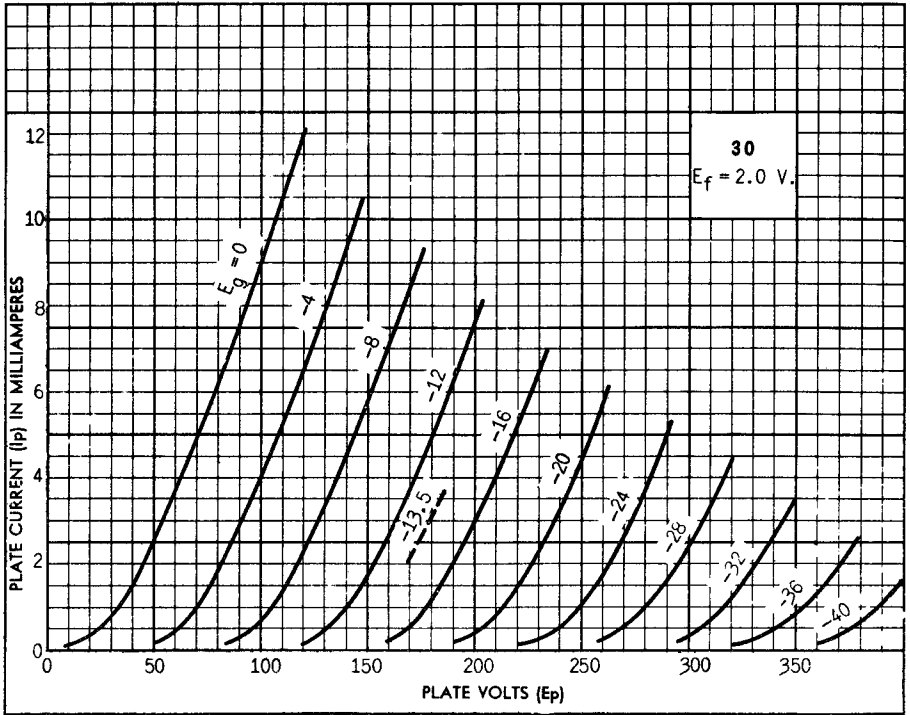
VALUES ARE FOR TWO TUBES

PLATE VOLTAGE	157.5	VOLTS
GRID VOLTAGE	-15	VOLTS
ZERO-SIGNAL PLATE CURRENT	1	MA.
LOAD RESISTANCE PER TUBE	2000	OHMS
EFFECTIVE LOAD RESISTANCE ^{PLATE TO PLATE}	8000	OHMS
PEAK POWER INPUT ^{GRID TO GRID}	260 ^{MAX.}	MILLIWATTS
POWER OUTPUT ^D (6% TO 7% DISTORTION)	2.1	WATTS

^D WITH ONE TYPE 30 AS DRIVER, OPERATED WITH PLATE VOLTAGE = 157.5 VOLTS, GRID VOLTAGE = -11.3 VOLTS, PLATE LOAD OF APPROXIMATELY 18,000 OHMS, AND INPUT TRANSFORMER RATIO, PRIMARY TO ONE HALF SECONDARY = 1.165.

DIRECT INTERELECTRODE CAPACITANCES

GRID TO FILAMENT	3.0	μf
PLATE TO FILAMENT	2.2	μf
GRID TO PLATE	6.0	μf



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PLATE
158-1

