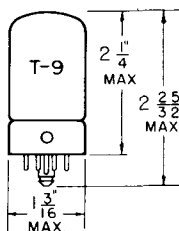


TUNG-SOL

DOUBLE TRIODE



GLASS BULB

COATED FILAMENT

SERIES FILAMENT

E_f APPLIED BETWEEN PINS 1 & 8
 E_{g1} REFERRED TO PIN 1

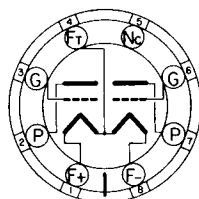
2.8 VOLTS
 110 MA.

PARALLEL FILAMENT

E_f APPLIED BETWEEN PIN 4 & PINS 2 & 8 TIED TOGETHER
 E_{g1} REFERRED TO PIN 4

1.4 VOLTS
 220 MA.

DC



BOTTOM VIEW

LOCK-IN
 8 PIN BASE

7BE

A SHUNTING RESISTOR MUST BE CONNECTED BETWEEN PINS 4 AND 8 FOR SERIES-FILAMENT OPERATION. ITS VALUE SHOULD BE SUCH THAT THE VOLTAGE ACROSS THE SHUNTED SECTION IS EQUAL TO THE VOLTAGE BETWEEN PINS 1 AND 8. AN ADDITIONAL SHUNTING RESISTOR MAY BE NECESSARY BETWEEN PINS 1 AND 8 IF OTHER TUBES USED IN SERIES-FILAMENT ARRANGEMENT CONTRIBUTE TO THE FILAMENT CURRENT OF THE 3B7/1291.

ANY MOUNTING POSITION

THE 3B7/1291 IS A FILAMENTARY TYPE TWIN TRIODE USING THE LOCK-IN CONSTRUCTION AND IS DESIGNED FOR ULTRA-HIGH FREQUENCY APPLICATIONS.

DIRECT INTERELECTRODE CAPACITANCES - EACH UNIT

	WITHOUT ^B SHIELD	WITH ^A SHIELD	
GRID TO PLATE: (G TO P)	2.6	2.6	$\mu\mu f$
INPUT: G TO (F+BS)	1.4	1.4	$\mu\mu f$
OUTPUT: P TO (F+BS)	1.8	2.6	$\mu\mu f$
GRID TO GRID: (4G TO 2G) MAX.	0.004	0.004	$\mu\mu f$

^A PIN #5 CONNECTED TO PIN #4.

^B WITH RMA SHIELD #308 CONNECTED TO NEGATIVE FILAMENT. PIN #5 CONNECTED TO PIN #4.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD WB-210

	SERIES FILAMENT	PARALLEL FILAMENT	
FILAMENT VOLTAGE DC	2.8	1.4	VOLTS
MAXIMUM PLATE VOLTAGE	180	180	VOLTS
MAXIMUM CATHODE CURRENT (EACH SECTION)	15	15	MA.
MAXIMUM GRID CURRENT (EACH SECTION)	4	3	MA.
MAXIMUM PLATE DISSIPATION (EACH SECTION)	2.7	2.7	WATTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

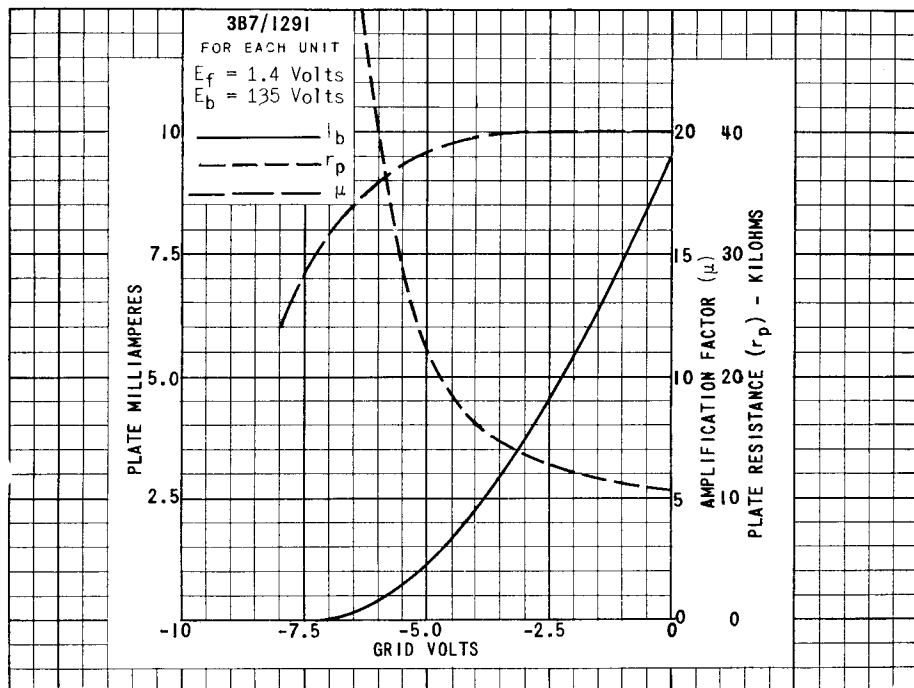
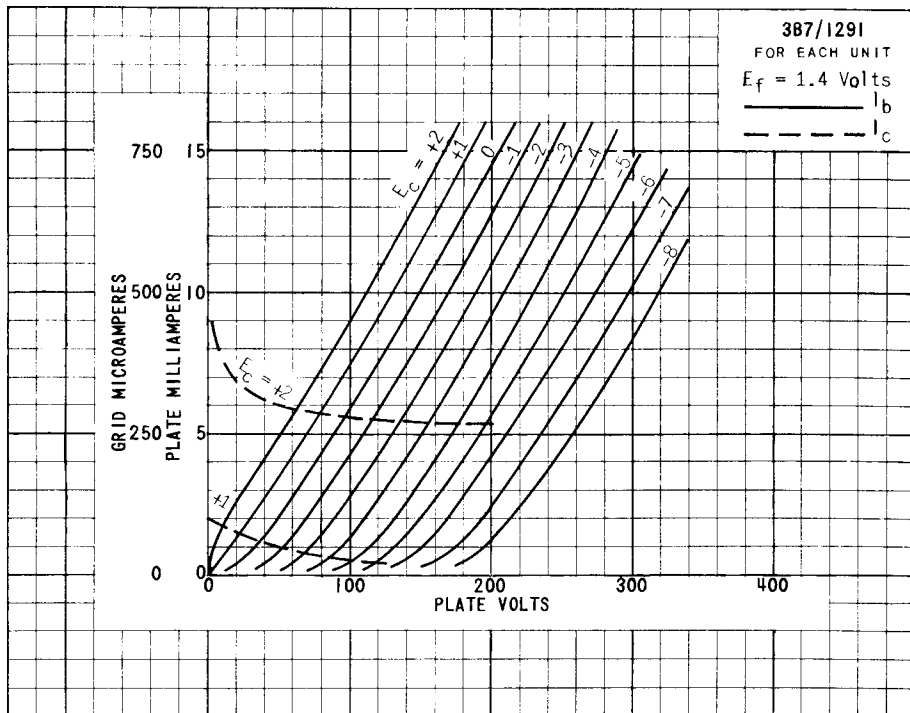
AF POWER AMPLIFIER - CLASS AB₂
PUSH-PULL - BOTH UNITS

FILAMENT VOLTAGE	1.4	1.4	VOLTS
FILAMENT CURRENT	220	220	MA.
PLATE VOLTAGE	90	135	VOLTS
GRID VOLTAGE	0	0	VOLTS
GRID DRIVING VOLTAGE (RMS)	23	19	VOLTS
ZERO SIGNAL PLATE CURRENT	10.4	18.2	MA.
MAXIMUM SIGNAL PLATE CURRENT	21	22	MA.
GRID CURRENT	3.6	2.7	MA.
GRID DRIVING POWER	45	28	MW.
TRANSCONDUCTANCE (EACH SECTION)	1 850	1 900	UMHOS
AMPLIFICATION FACTOR (EACH SECTION)	20	20	
LOAD RESISTANCE	8 000	16 000	OHMS
TOTAL DISTORTION	8	8	PERCENT
POWER OUTPUT	1	1.5	WATTS

RF POWER AMPLIFIER - CLASS C
PUSH-PULL - BOTH UNITS

FILAMENT VOLTAGE	1.4	1.4	1.4	VOLTS
FILAMENT CURRENT	220	220	220	MA.
PLATE VOLTAGE	90	135	180	VOLTS
GRID VOLTAGE ^A	-8	-18	-30	VOLTS
PEAK RF GRID TO GRID VOLTAGE	60	80	110	VOLTS
PLATE CURRENT	15	25	25	MA.
GRID CURRENT	2	4.5	4.5	MA.
CATHODE CURRENT (NOT TO EXCEED 30 MA.)	17	29.5	29.5	MA.
DRIVING POWER (APPROX.)	0.10	0.20	0.30	WATT
POWER OUTPUT:				
25 MEGACYCLES	0.85	2	2.8	WATTS
125 MEGACYCLES	0.32	1	1.4	WATTS

^A MAY BE OBTAINED FROM A FIXED SOURCE OR A GRID RESISTOR.



3B7/1291

