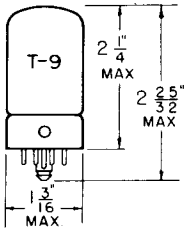
TUNG-SOL

DOUBLE TRIODE



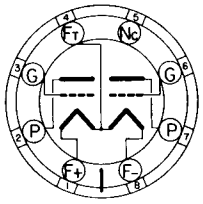
GLASS BULB

COATED FILAMENT

SERIES FILAMENT	PARALLEL FILAMENT
E_f APPLIED BETWEEN PINS 1 & 8	E_f APPLIED BETWEEN PIN 4 & PINS 1 & 8 TIED TOGETHER
E_{g1} REFERRED TO PIN 1	E_{g1} REFERRED TO PIN 4
2.8 VOLTS 110 MA.	1.4 VOLTS 220 MA.

DC

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.



BOTTOM VIEW
LOCK-IN
8 PIN BASE
7BE

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	μμf
INPUT: G TO (F+BS)	1.4	1.4	μμf
OUTPUT: P TO (F+BS)	1.8	2.6	μμf
GRID TO GRID: (1G TO 2G) MAX.	0.004	0.004	μμf

[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 MB-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

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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

AF POWER AMPLIFIER - CLASS AB_2
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	µMHOS
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.

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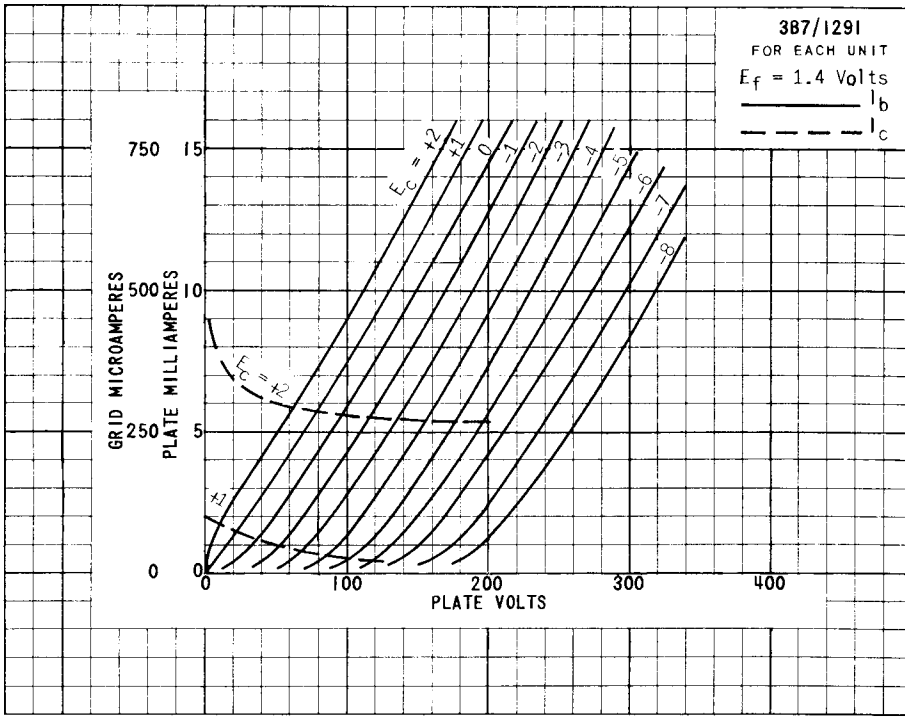

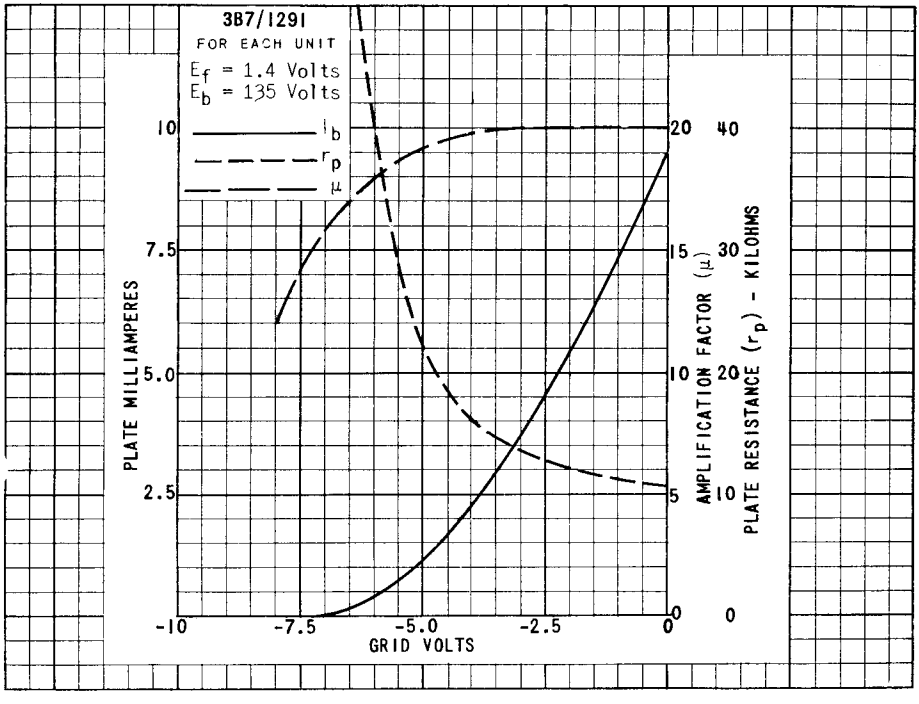

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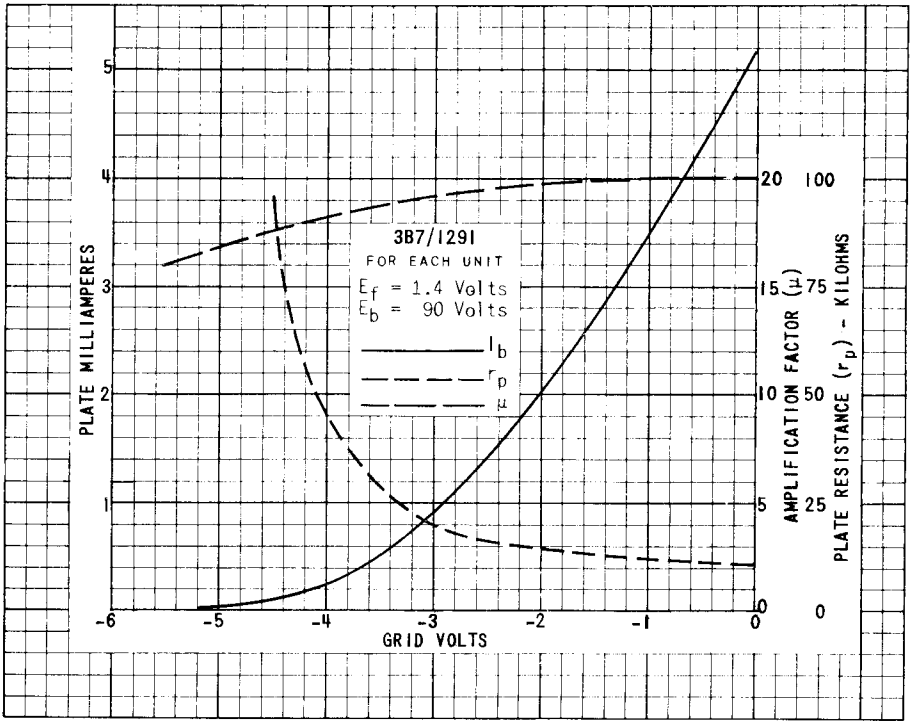

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