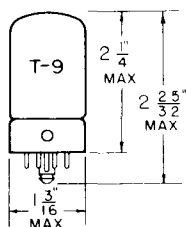


TUNG-SOL

PENTODE

COATED FILAMENT



GLASS BULB

SERIES FILAMENT

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

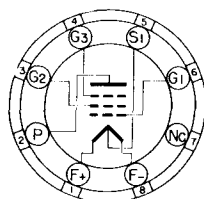
2.8 VOLTS
 50 MA.

PARALLEL FILAMENT

E_f APPLIED BETWEEN PIN 5 AND PINS 1 & 8 TIED TOGETHER
 E_{g1} REFERRED TO PIN 5

1.4 VOLTS
 100 MA.

AC OR DC



BOTTOM VIEW

LOCK-IN 8 PIN BASE
 7CJ

A SHUNTING RESISTOR MUST BE CONNECTED BETWEEN PINS 5 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 5 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 3E6.

ANY MOUNTING POSITION

THE 3E6 IS A HIGH TRANSCONDUCTANCE SHARP CUT-OFF FILAMENTARY TYPE RF PENTODE IN THE LOCK-IN CONSTRUCTION.

DIRECT INTERELECTRODE CAPACITANCES

WITH RMA SHIELD #308 CONNECTED PIN #8

GRID TO PLATE: $\{G_1 \text{ TO } P\}$	0.007	μmf
INPUT: $G_1 \text{ TO } (F+G_2+G_3+IS)$	5.5	μmf
OUTPUT: $P \text{ TO } (F+G_2+G_3+IS)$	8	μmf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-210

	PARALLEL FILAMENT	SERIES FILAMENT	
FILAMENT VOLTAGE	1.4	2.8	VOLTS
MAXIMUM PLATE VOLTAGE	110	110	VOLTS
MAXIMUM GRID #2 VOLTAGE	110	110	VOLTS
MAXIMUM CATHODE CURRENT	6 ^A	12	VOLTS

^A FOR EACH 1.4 VOLT FILAMENT SECTION.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

	PARALLEL FILAMENT	SERIES FILAMENT	
FILAMENT VOLTAGE	1.4	2.8	VOLTS
FILAMENT CURRENT	100	50	MA.
PLATE VOLTAGE	90	90	VOLTS
GRID #3 VOLTAGE	PIN #4 CONNECTED TO PIN #8 AT SOCKET		
GRID #2 VOLTAGE	90	90	VOLTS
GRID #1 VOLTAGE ^B	0	0	VOLTS
GRID #1 RESISTOR	2	2	MEGOHMS
PLATE RESISTANCE (APPROX.)	0.25	0.325	MEGOHM
TRANSCONDUCTANCE	2 000	1 700	μMHOS
PLATE CURRENT	4.2	2.9	MA.
GRID #2 CURRENT	1.7	1.2	MA.
GRID #1 VOLTAGE (APPROX.) FOR $I_b = 10 \mu\text{A}$.	-5.5	-4	VOLTS

^B GRID RETURN TO NEGATIVE END OF FILAMENT THROUGH A 2 MEGOHM RESISTOR

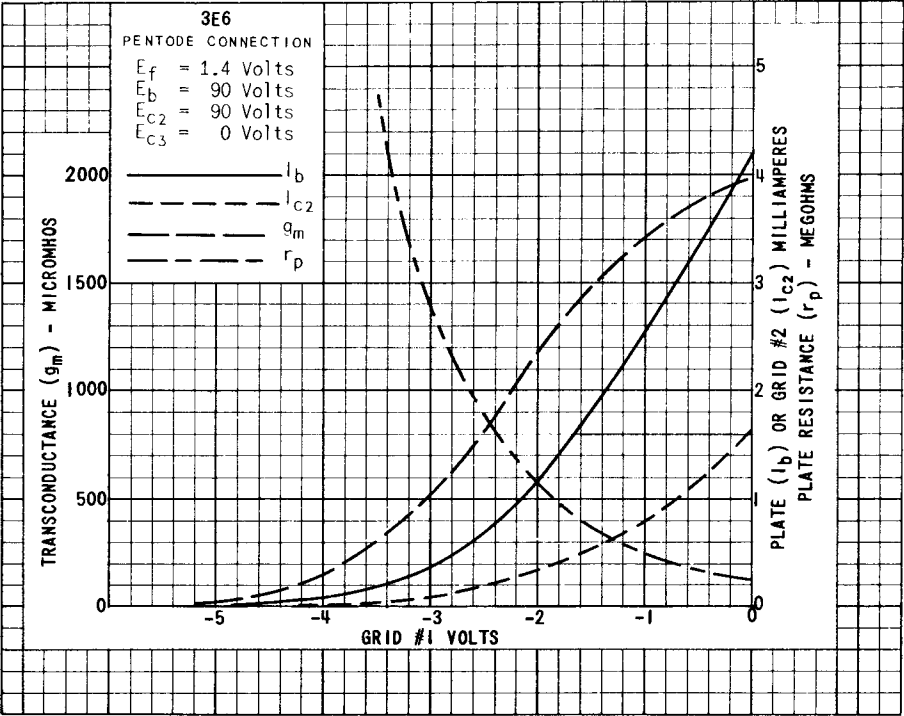
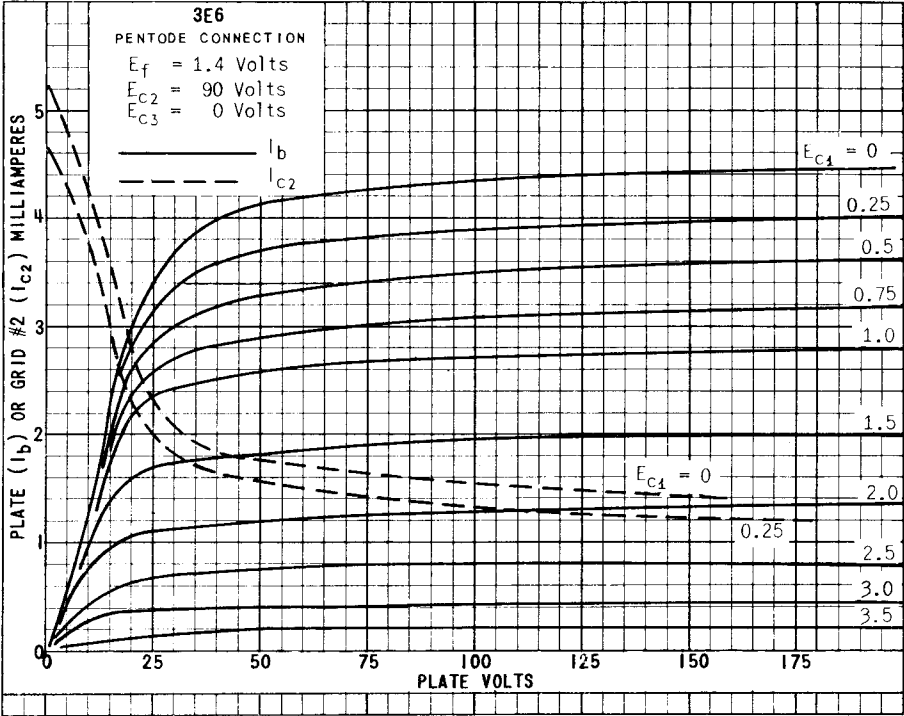


PLATE
2207
JUNE 1,
1949