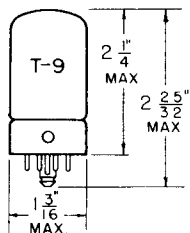


## TUNG-SOL

### PENTODE



GLASS BULB

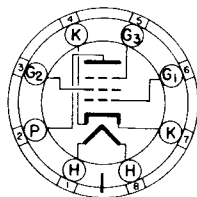
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 450 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

LOCK-IN 8 PIN BASE

THE 7W7 IS A CATHODE TYPE SHARP CUT-OFF PENTODE VOLTAGE AMPLIFIER IN THE LOCK-IN CONSTRUCTION. IT IS CHARACTERIZED BY HIGH TRANSCONDUCTANCE AND LOW GRID-TO-PLATE CAPACITANCE WHICH MAKE IT USEFUL IN HIGH GAIN NARROW BAND AMPLIFIER SERVICE.

### DIRECT INTERELECTRODE CAPACITANCES

WITH EXTERNAL SHIELD CONNECTED TO CATHODE

GRID TO PLATE: {G TO P} MAX.	0.0025	μmf
INPUT: G <sub>1</sub> TO (H+K+G <sub>2</sub> +G <sub>3</sub> )	9.5	μmf
OUTPUT: P TO (H+K+G <sub>2</sub> +G <sub>3</sub> )	7.0	μmf

### RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	150	VOLTS
MAXIMUM PLATE DISSIPATION	4	WATTS
MAXIMUM GRID #2 DISSIPATION	0.8	WATT

### TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

#### CLASS A<sub>1</sub> AMPLIFIER

	WITH FIXED SCREEN SUPPLY	WITH SERIES SCREEN RESISTOR	
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	450	450	MA.
PLATE VOLTAGE	300	300	VOLTS
GRID #3 VOLTAGE	150	---	VOLTS
GRID #2 VOLTAGE	---	300	VOLTS
GRID #2 SUPPLY VOLTAGE <sup>A</sup>	---	40 000	OHMS
GRID #2 SERIES RESISTOR	160	160	OHMS
CATHODE BIAS RESISTOR	0.3	0.3	MEGOHM
PLATE RESISTANCE (APPROX.)	5 800	5 800	μMHOS
TRANSCONDUCTANCE	10	10	MA.
PLATE CURRENT	3.9	3.9	MA.
GRID #2 CURRENT	---	---	---
GRID #1 VOLTAGE (APPROX.) FOR I <sub>b</sub> = 10 μA.	-8	-16	VOLTS

<sup>A</sup> WHEN A SCREEN SUPPLY VOLTAGE IN EXCESS OF 150 VOLTS IS USED, A SERIES SCREEN DROPPING RESISTOR MUST BE EMPLOYED TO LIMIT SCREEN VOLTAGE TO 150 VOLTS WITH PLATE CURRENT AT RATED VALUE OF 10 MA.

PLATE  
2057  
AUG. 2,  
1948

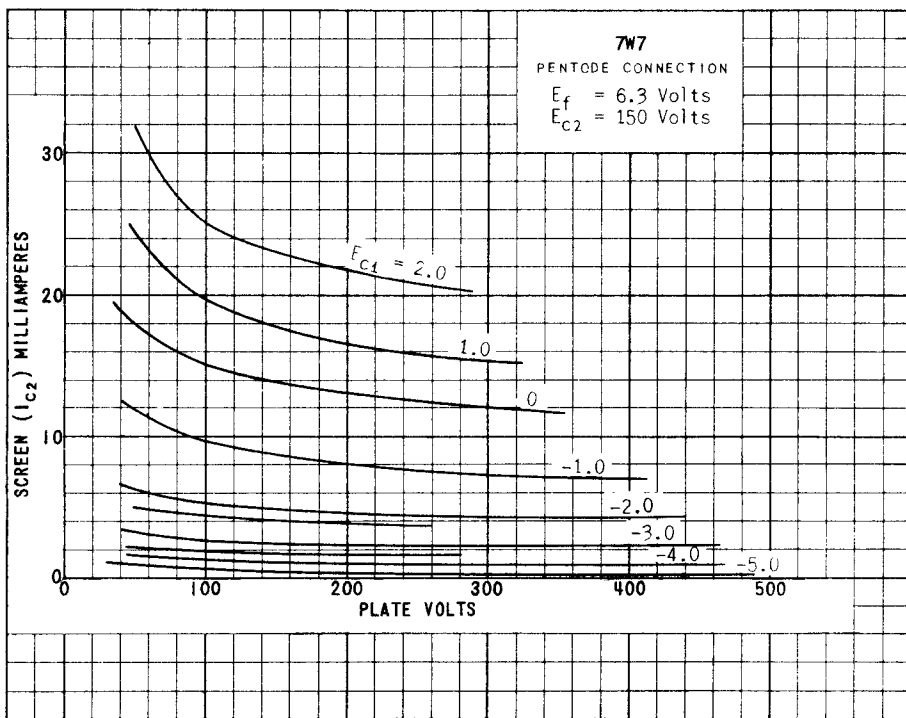
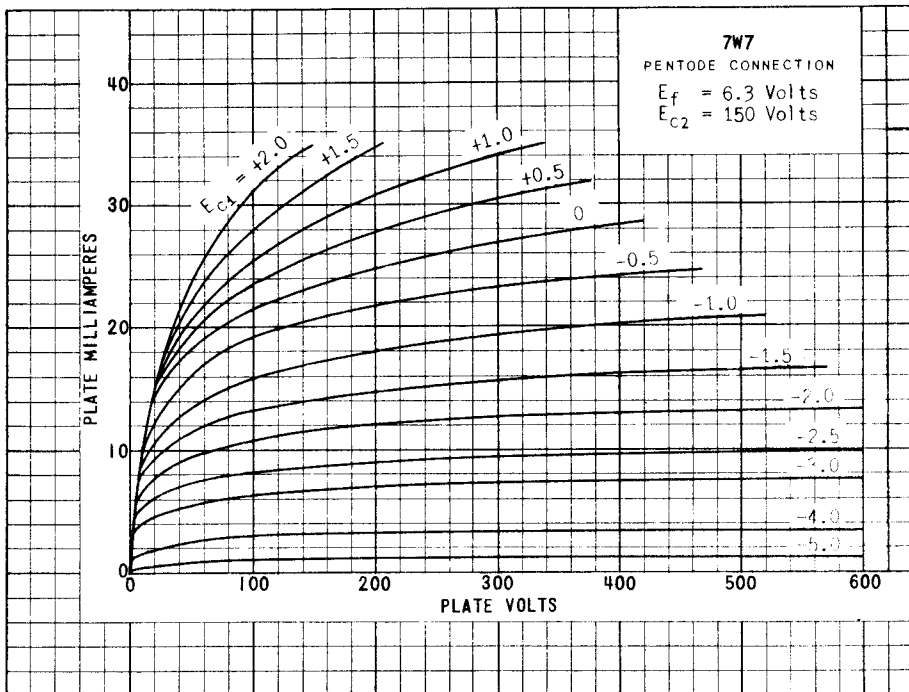
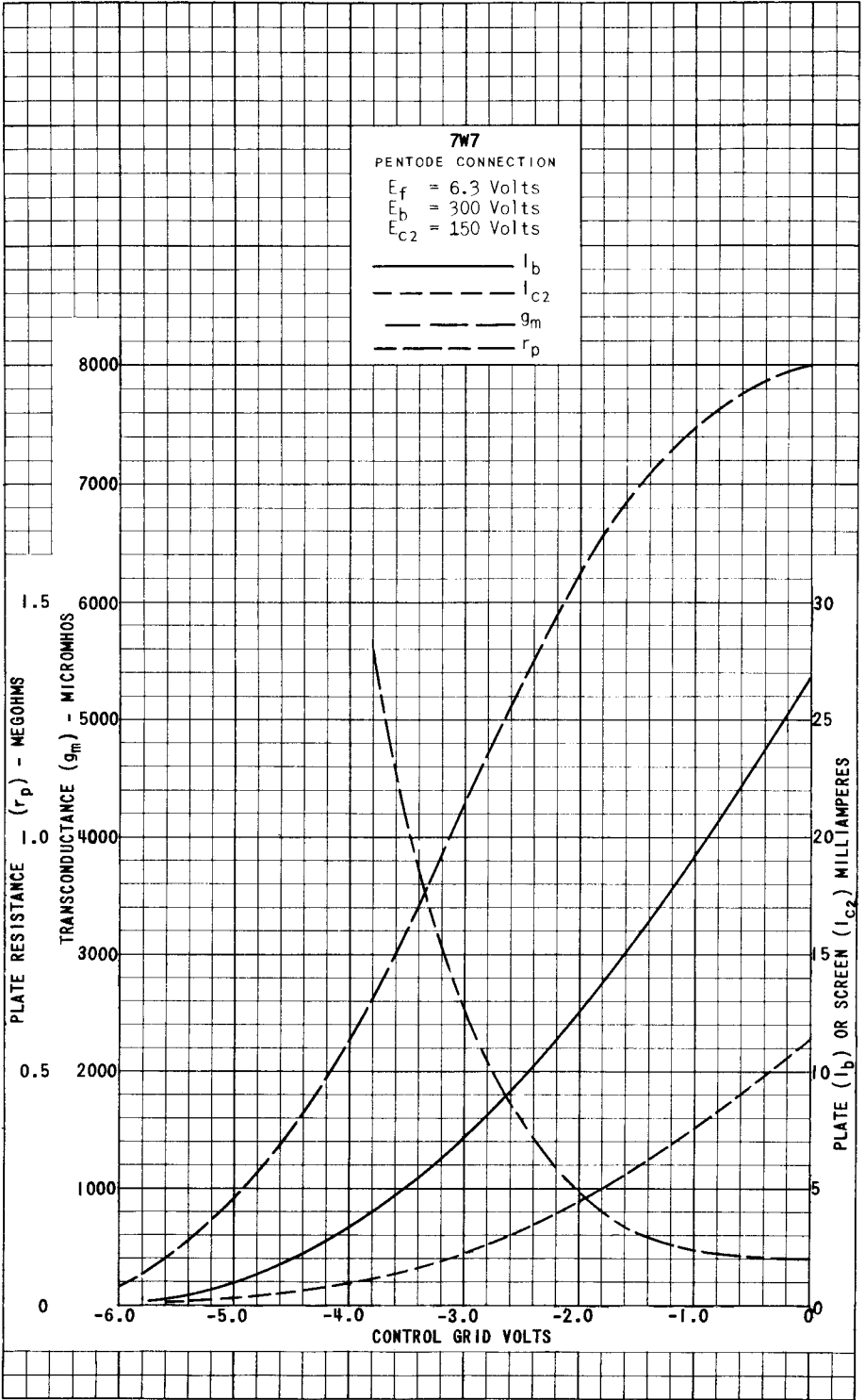


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 2058  
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PLATE 2026  
JUNE 1, 1948