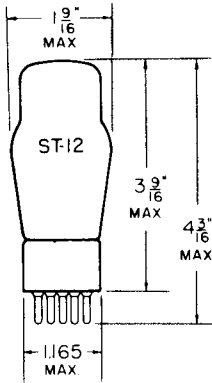


**TUNG-SOL**

**PENTODE**



**GLASS BULB**

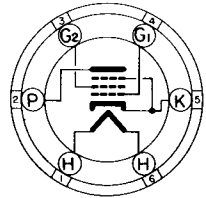
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 400 MA.

AC OR DC

ANY MOUNTING POSITION



**BOTTOM VIEW**

SMALL 6 PIN BASE

6B

THE 41 IS AN INDIRECTLY HEATED CATHODE TYPE POWER AMPLIFIER PENTODE DESIGNED FOR SERVICE IN THE OUTPUT STAGES OF AC, AC/DC AND STORAGE BATTERY OPERATED RECEIVERS.

**RATINGS**

INTERPRETED ACCORDING TO RMA STANDARD MB-210

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	315	VOLTS
MAXIMUM GRID #2 VOLTAGE	285	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	8.5	WATTS
MAXIMUM GRID #2 DISSIPATION	2.8	WATTS

**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**

**CLASS A<sub>1</sub> AMPLIFIER - SINGLE TUBE**

HEATER VOLTAGE	6.3	6.3	6.3	VOLTS
HEATER CURRENT	400	400	400	MA.
PLATE VOLTAGE	100	250	315	VOLTS
GRID #2 VOLTAGE	100	250	250	VOLTS
GRID #1 VOLTAGE <sup>A</sup>	-7	-18	-21	VOLTS
PEAK AF GRID #1 VOLTAGE	7	18	21	VOLTS
ZERO SIGNAL PLATE CURRENT	9	32	25.5	MA.
MAXIMUM SIGNAL PLATE CURRENT	9.5	33	28	MA.
ZERO SIGNAL GRID #2 CURRENT	1.6	5.5	4	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	3	10	9	MA.
PLATE RESISTANCE (APPROX.)	104 000	90 000	110 000	OHMS
TRANSCONDUCTANCE	1 500	2 300	2 100	UMHOS
LOAD RESISTANCE	12 000	7 600	9 000	OHMS
MAXIMUM SIGNAL POWER OUTPUT	0.35	3.4	4.5	WATTS
TOTAL HARMONIC DISTORTION (APPROX.)	11	11	15	PERCENT

<sup>A</sup> MAXIMUM GRID #1 CIRCUIT RESISTANCE FOR FIXED BIAS = 0.1 MEGOHM.

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CONTINUED ON FOLLOWING PAGE

→ INDICATES A CHANGE OR ADDITION

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

### TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER  
PUSH-PULL - TWO TUBES<sup>B</sup>

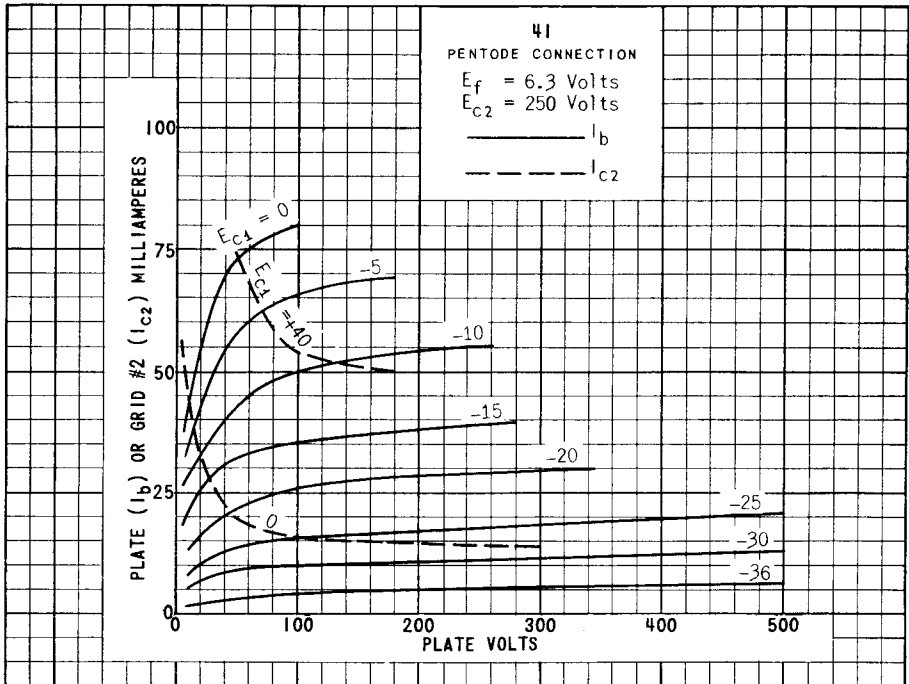
	FIXED BIAS	CATHODE BIAS	
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	400	400	MA.
PLATE VOLTAGE	285	285	VOLTS
GRID #2 VOLTAGE	285	285	VOLTS
GRID #1 VOLTAGE	-25.5 <sup>A</sup>	---	VOLTS
CATHODE RESISTOR	---	400 <sup>C</sup>	OHMS
PEAK AF GRID #1 TO GRID #1 VOLTAGE	51	51	VOLTS
ZERO SIGNAL PLATE CURRENT	55	55	MA.
MAXIMUM SIGNAL PLATE CURRENT	72	61	MA.
ZERO SIGNAL GRID #2 CURRENT	9	9	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	17	13	MA.
PLATE TO PLATE LOAD RESISTANCE	12 000	12 000	OHMS
MAXIMUM SIGNAL POWER OUTPUT	10.5	9.8	WATTS
TOTAL HARMONIC DISTORTION	6	4	PERCENT

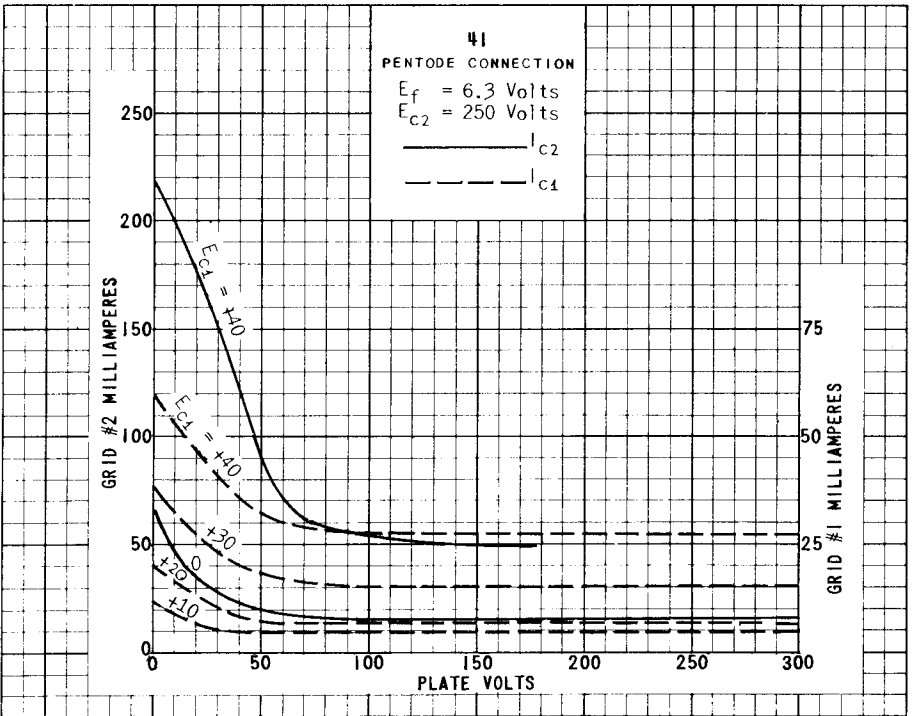
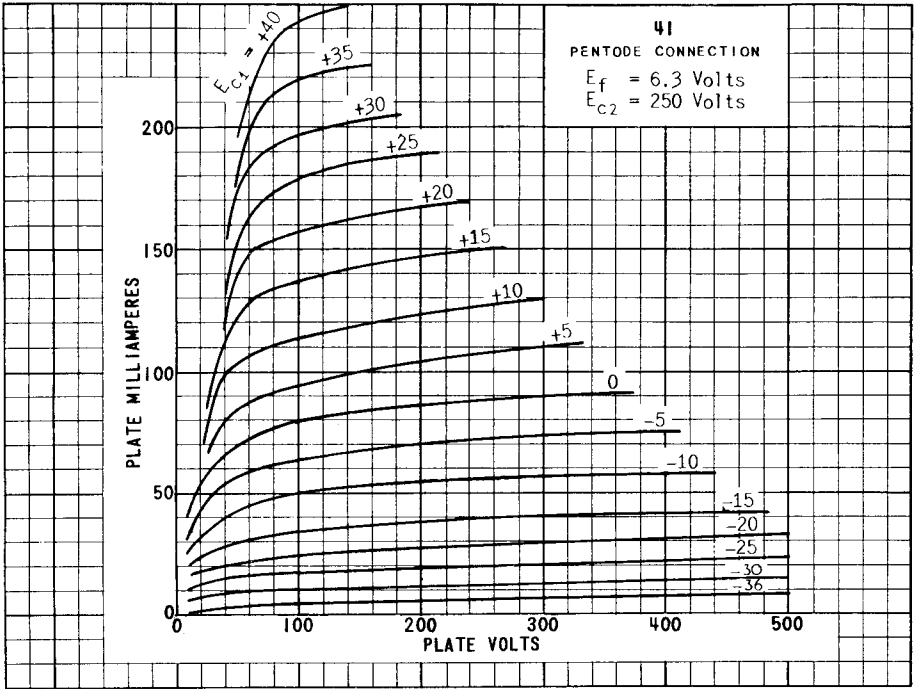
<sup>A</sup> MAXIMUM GRID #1 CIRCUIT RESISTANCE FOR FIXED BIAS = 0.1 MEGOHM.

<sup>B</sup> UNLESS OTHERWISE SPECIFIED.

<sup>C</sup> MAXIMUM GRID #1 CIRCUIT RESISTANCE FOR CATHODE BIAS = 0.5 MEGOHM.

**SIMILAR TYPE REFERENCE:** Ratings and characteristics are identical to types 7B5 and 6K6GT.





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