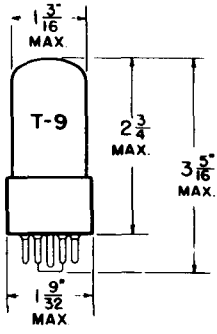
TUNG-SOL

BEAM PENTODE

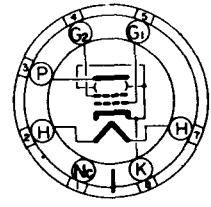


GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
25 VOLTS 0.3 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
INTERMEDIATE SHELL
7 PIN OCTAL
7AC

THE 25W6GT IS A BEAM PENTODE POWER AMPLIFIER DESIGNED SPECIFICALLY FOR USE AS A VERTICAL SCANNING OUTPUT TUBE IN TELEVISION RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES

WITH NO EXTERNAL SHIELD

GRID #1 TO PLATE: (G_1 TO P) MAX.	0.5	μμf
INPUT: G_1 TO (H+K+BP+G_2)	15	μμf
OUTPUT: P TO (H+K+BP+G_2)	9.0	μμf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

	CLASS A1 AMPLIFIER	VERTICAL DEFLECTION AMPLIFIER [AB]	
HEATER VOLTAGE	25	25	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE:			
TOTAL DC AND PEAK	200	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE:			
DC	100	100	VOLTS
TOTAL DC AND PEAK	200	200	VOLTS
MAXIMUM PLATE VOLTAGE	300	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	150	---	VOLTS
MAXIMUM PEAK POSITIVE PLATE VOLTAGE (ABSOLUTE MAXIMUM)	---	1 200	VOLTS
MAXIMUM PEAK NEGATIVE GRID #1 VOLTAGE	---	250	VOLTS
MAXIMUM PLATE DISSIPATION[C]	10	7.5	WATTS
MAXIMUM GRID #2 DISSIPATION	1.25	---	WATTS
MAXIMUM AVERAGE CATHODE CURRENT	---	40	MA.
MAXIMUM PEAK CATHODE CURRENT	---	140	MA.
MAXIMUM GRID CIRCUIT RESISTANCE:			
FIXED BIAS OPERATION	0.1	---	MEGOHMS
CATHODE BIAS OPERATION	0.5	2.2	MEGOHMS

[A] TRIODE CONNECTION - GRID #2 TIED TO PLATE.

[B] FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCASTING STATIONS; FEDERAL COMMUNICATIONS COMMISSION". THE DUTY CYCLE OF THE VOLTAGE PULSE NOT TO EXCEED 15 PERCENT OF A SCANNING CYCLE.

[C] IN STAGES OPERATING WITH GRID-LEAK BIAS, AN ADEQUATE CATHODE BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

CONTINUED ON FOLLOWING PAGE

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CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

HEATER VOLTAGE	25	25	VOLTS
HEATER CURRENT	0.3	0.3	AMP.
PLATE VOLTAGE	110	200	VOLTS
GRID #2 VOLTAGE	110	125	VOLTS
GRID #1 VOLTAGE	-7.5	---	VOLTS
CATHODE BIAS RESISTOR	---	180	OHMS
PEAK AF GRID #1 VOLTAGE	7.5	8.5	VOLTS
PLATE RESISTOR (APPROX.)	13 000	28 000	OHMS
TRANSCONDUCTANCE	8 000	8 000	µMHOS
ZERO-SIGNAL PLATE CURRENT	49	46	MA.
MAXIMUM-SIGNAL PLATE CURRENT (APPROX.)	50	47	MA.
ZERO-SIGNAL GRID #2 CURRENT	4.0	2.2	MA.
MAXIMUM-SIGNAL GRID #2 CURRENT (APPROX.)	10	8.5	MA.
LOAD RESISTANCE	2 000	4 000	OHMS
TOTAL HARMONIC DISTORTION	10	10	PERCENT
POWER OUTPUT	2.1	3.8	WATTS

TRIODE CONNECTION[C]

HEATER VOLTAGE	25	VOLTS
HEATER CURRENT	0.3	AMP.
PLATE VOLTAGE	225	VOLTS
GRID VOLTAGE	-30	VOLTS
AMPLIFICATION FACTOR	6.2	
PLATE RESISTANCE (APPROX.)	1 600	OHMS
TRANSCONDUCTANCE	3 800	µMHOS
PLATE CURRENT	22	MA.
GRID VOLTAGE FOR I_b = 0.5 MA. (APPROX.)	-42	VOLTS

[C] GRID #2 TIED TO PLATE.

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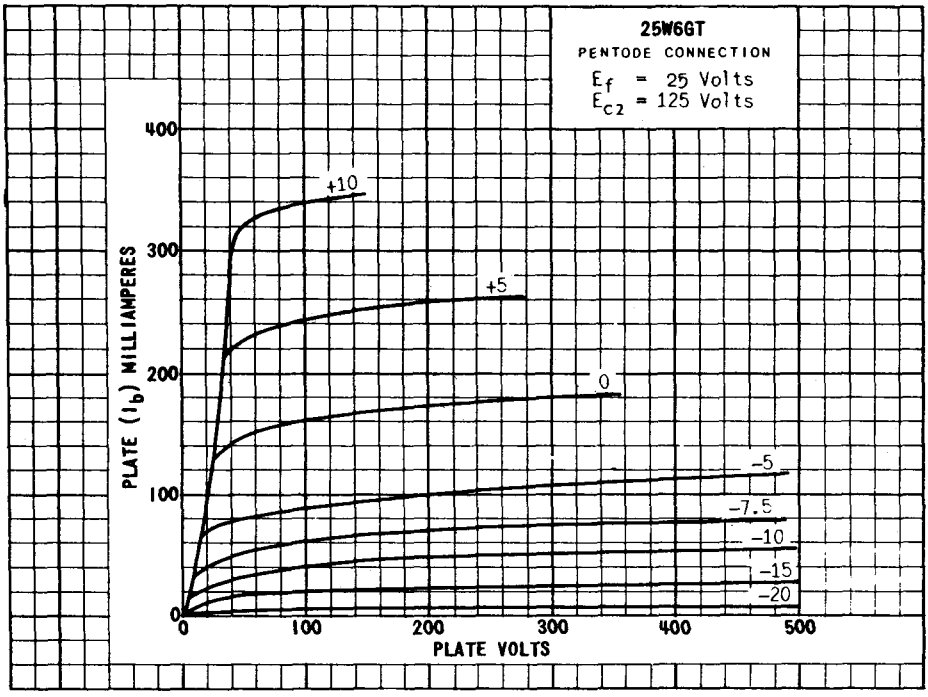

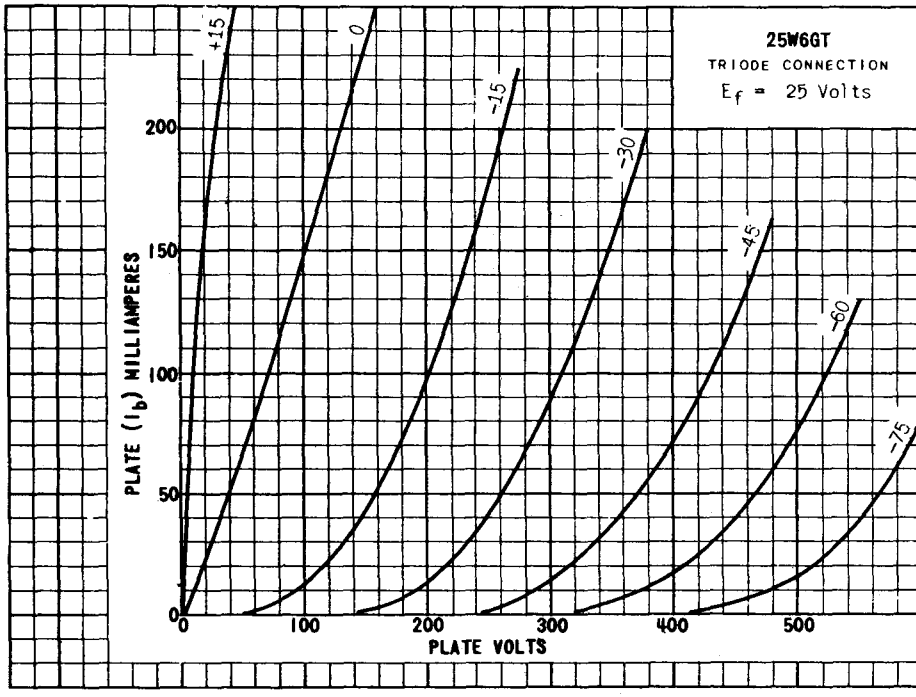

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PLATE
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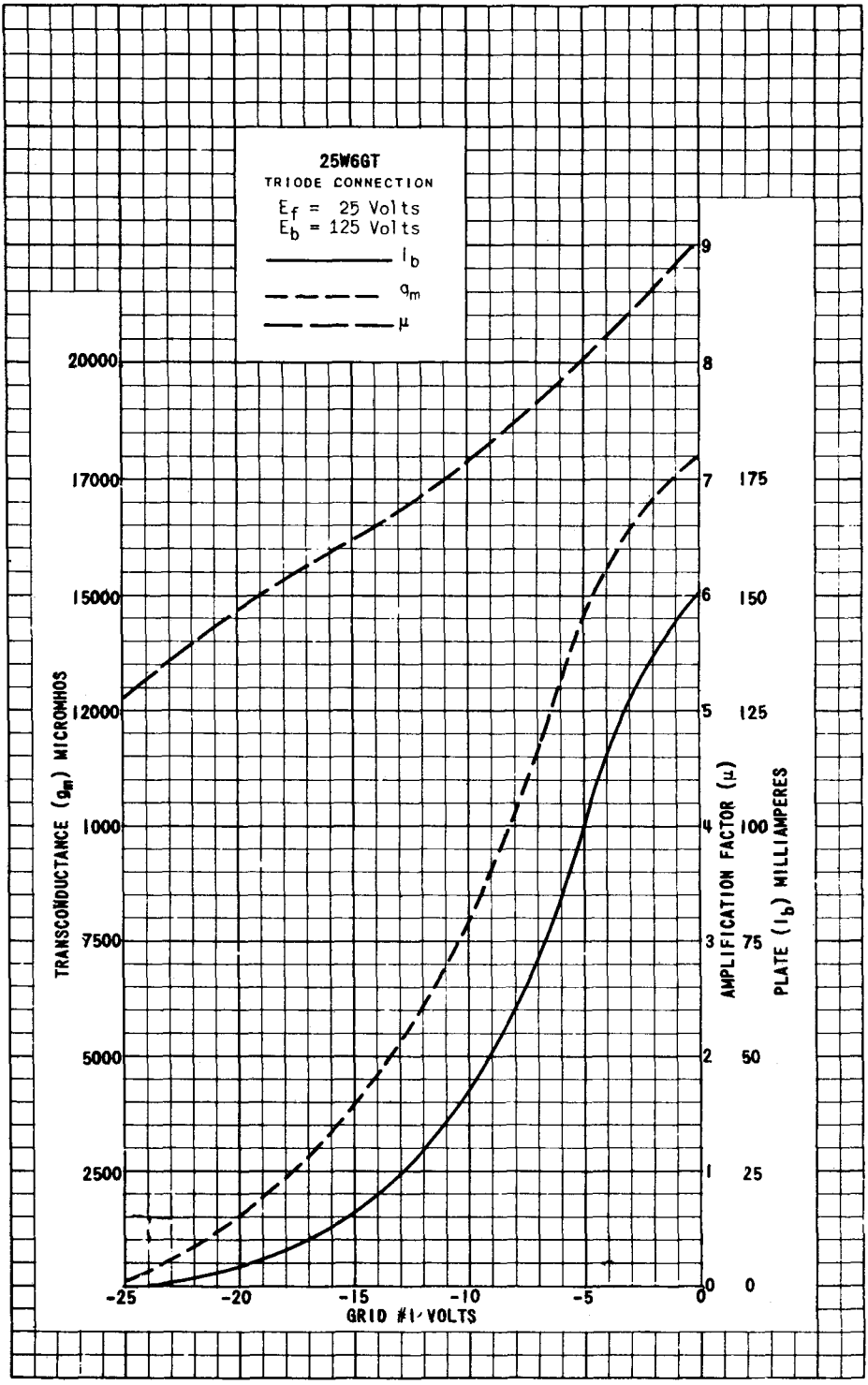
25W6GT (25W6GT)



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