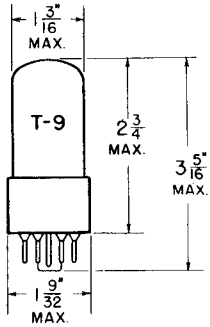
TUNG-SOL

TRIODE

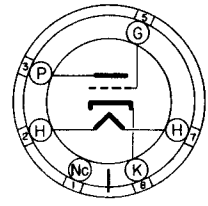


GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
12.6 VOLTS 150 MA.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
INTERMEDIATE SHELL
6 PIN OCTAL BASE

THE 12J5GT IS A GENERAL PURPOSE MEDIUM-MU TRIODE. IT IS USEFUL FOR SERVICE AS AN OSCILLATOR OR AUDIO-FREQUENCY AMPLIFIER.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITH CLOSE FITTING SHIELD CONNECTED TO CATHODE

GRID TO PLATE: (G TO P)	3.8	μμf
INPUT: G TO (H+K)	4.2	μμf
OUTPUT: P TO (H+K)	5	μμf

RATINGS
INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	12.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MINIMUM NEGATIVE DC GRID VOLTAGE	0	VOLTS
MAXIMUM GRID CIRCUIT RESISTANCE	1.0	MEG.
MAXIMUM PLATE DISSIPATION	2.5	WATTS
MAXIMUM CATHODE CURRENT	20	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

	CLASS A_1 AMPLIFIER		
HEATER VOLTAGE	12.6	12.6	VOLTS
HEATER CURRENT	150	150	MA.
PLATE VOLTAGE	90	250	VOLTS
GRID VOLTAGE	0	-8	VOLTS
PLATE CURRENT	10	9	MA.
PLATE RESISTANCE	6 700	7 700	OHMS
TRANSCONDUCTANCE	3 000	2 600	μMHOS
AMPLIFICATION FACTOR	20	20	

SIMILIAR TYPE REFERENCE: Ratings and characteristics are identical to 1U4U, except for heater ratings.

CONTINUED ON FOLLOWING PAGE

→ INDICATES A CHANGE OR ADDITION.

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PLATE
1948

JAN. 2,
1948

CONTINUED FROM PRECEDING PAGE

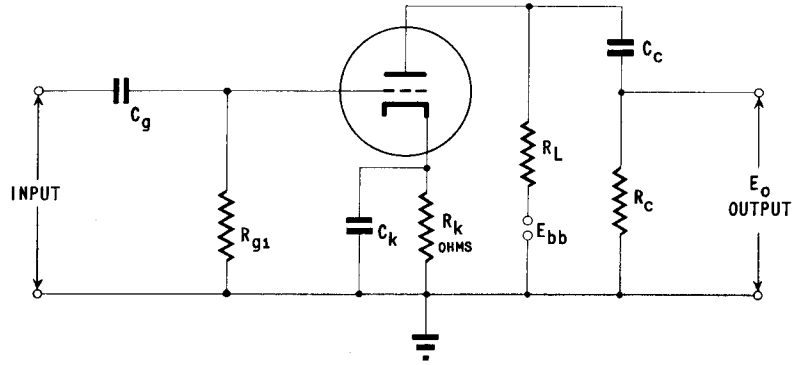
RESISTANCE COUPLED AMPLIFIER

R_1 MEG.	R_{g1} MEG.	R_s MEG.	E_{bb} = 90 VOLTS			E_{bb} = 180 VOLTS			E_{bb} = 300 VOLTS		
			R_k	GAIN	E_o	R_k	GAIN	E_o	R_k	GAIN	E_o
0.10	A	0.10	3300	14	13	2200	14	26	1800	14	40
0.10	A	0.24	3600	14	16	2700	15	33	2200	15	51
0.24	A	0.24	7500	14	16	5100	15	30	4300	15	44
0.24	A	0.51	9100	14	19	6800	15	39	5100	15	54
0.51	A	0.51	13000	14	16	9100	15	30	6800	16	40
0.51	A	1.0	15000	14	19	10000	16	32	7500	16	45
0.24	10	0.24	---	15	13	---	16	33	---	17	46
0.24	10	0.51	---	16	17	---	17	38	---	18	62
0.51	10	0.51	---	16	14	---	18	32	---	18	53
0.51	10	1.0	---	17	18	---	18	41	---	19	68

[A] VALUE OF R_{g1} IS NOT CRITICAL.

GAIN MEASURED AT E_o = 2.0 VOLTS RMS OUTPUT.

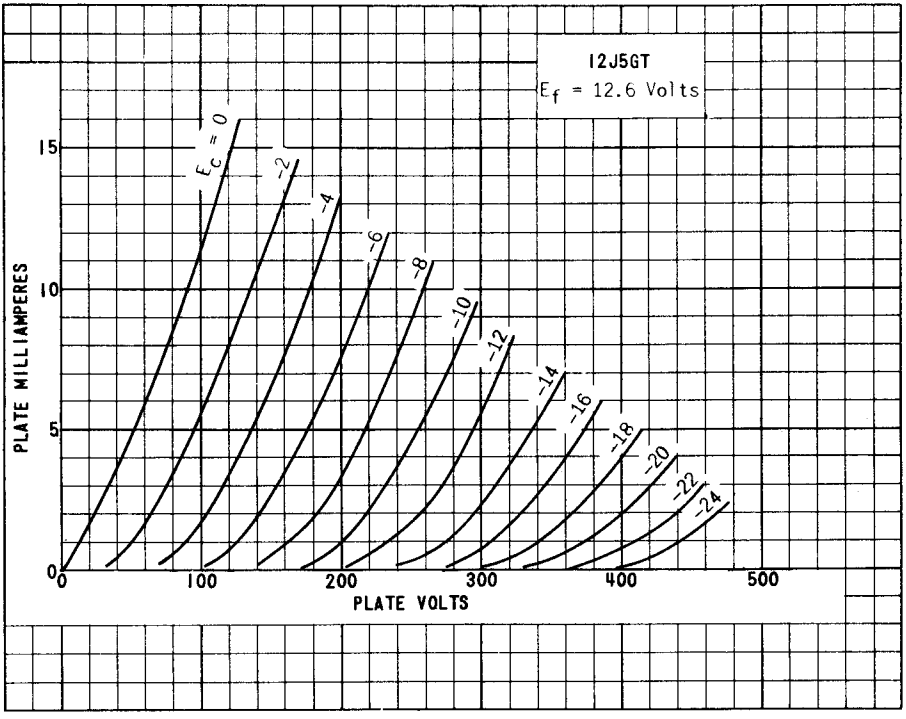
E_o IS RMS OUTPUT FOR 5% TOTAL HARMONIC DISTORTION.



NOTE: COUPLING CAPACITORS C_g AND C_c SHOULD BE SELECTED TO GIVE DESIRED FREQUENCY RESPONSE. R_k SHOULD BE ADEQUATELY BY-PASSED BY CAPACITOR C_k.

PLATE 1949
JAN. 2, 1948

→ INDICATES A CHANGE OR ADDITION.



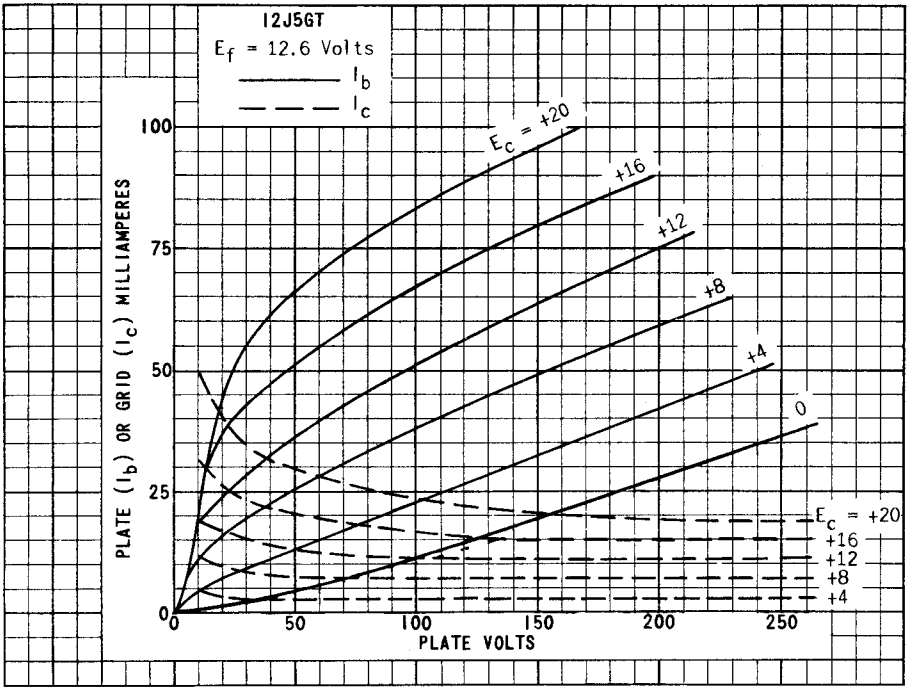


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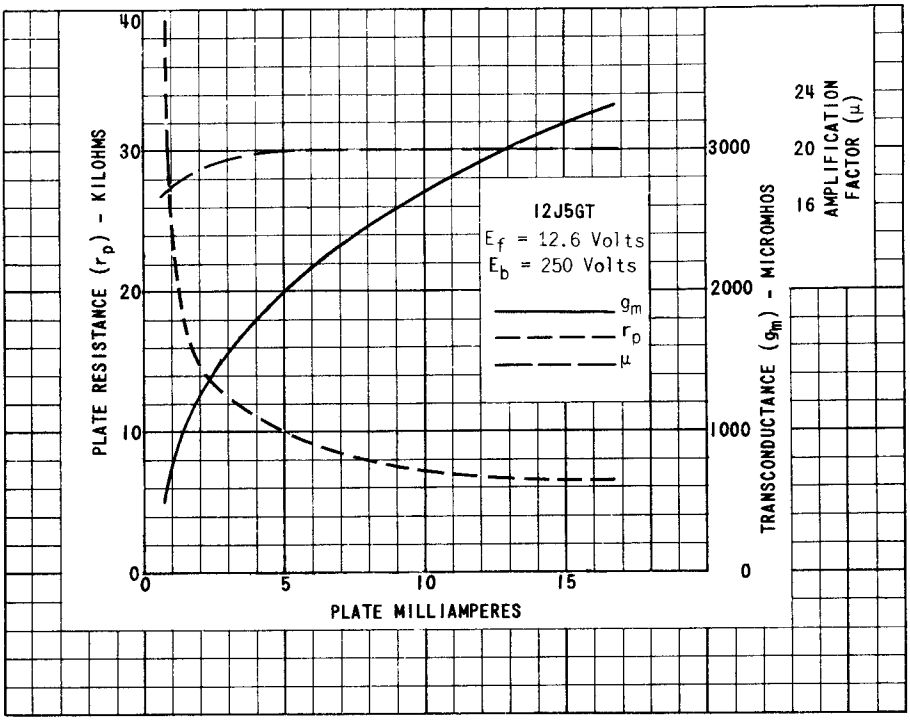
PLATE
1950
JAN. 2,
1948

12J5GT



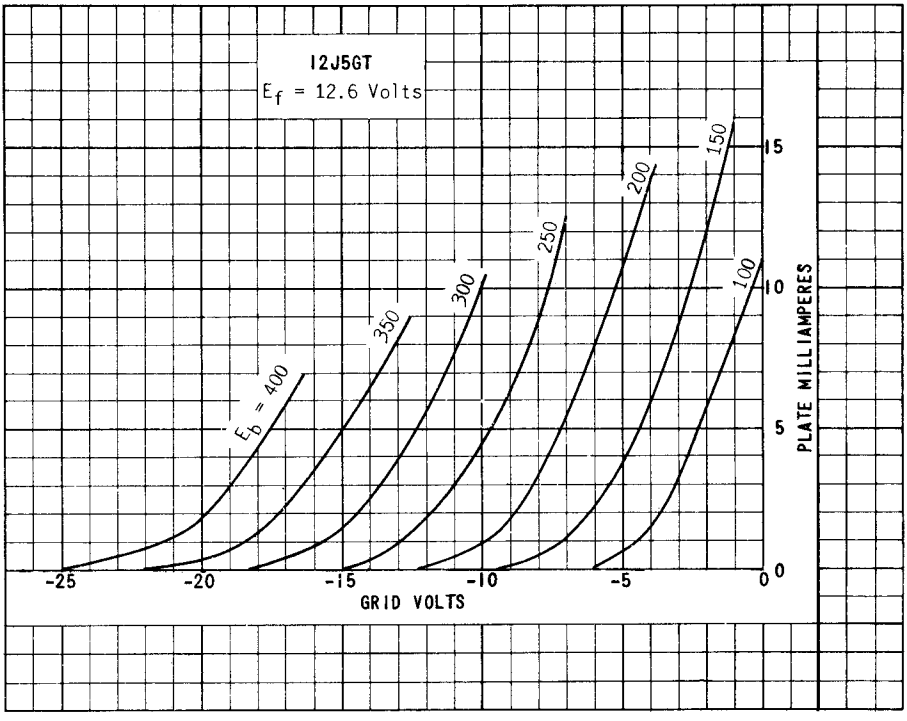


PLATE 1951
JAN. 2, 1948