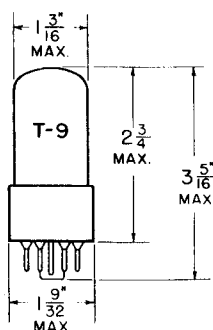


TUNG-SOL

DOUBLE TRIODE

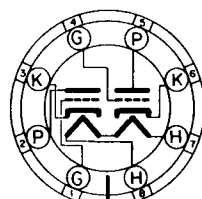


GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.6 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

INTERMEDIATE SHELL
8 PIN OCTAL

880

THE 6SN7GTA IS A MEDIUM-MU TRIODE INTENDED FOR USE AS A COMBINED VERTICAL OSCILLATOR AND VERTICAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS. IT IS ELECTRICALLY EQUIVALENT TO THE 6SN7GT BUT IT HAS HIGHER VOLTAGE AND DISSIPATION RATINGS AS COMPARED TO THE 6SN7GT.

DIRECT INTERELECTRODE CAPACITANCES

WITH NO EXTERNAL SHIELD

	SECTION 1	SECTION 2	
GRID TO PLATE: (G TO P)	3.8	4	μf
INPUT: G TO (H+K)	2.8	3	μf
OUTPUT: P TO (H+K)	0.8	1.2	μf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-220

EACH TRIODE UNIT

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	200	VOLTS
MAXIMUM PLATE VOLTAGE	500	VOLTS
MAXIMUM PEAK POSITIVE SURGE PLATE VOLTAGE ^A	1250	VOLTS
MAXIMUM DC GRID VOLTAGE	-50	VOLTS
MAXIMUM PEAK NEGATIVE SURGE GRID VOLTAGE ^A	200	VOLTS
MAXIMUM PLATE DISSIPATION (EACH PLATE)	5	WATTS
MAXIMUM PLATE DISSIPATION (BOTH PLATES)	7.5	WATTS
MAXIMUM GRID CIRCUIT RESISTANCE:		
WITH CATHODE OR FIXED BIAS	1	MEGOHM
WITH CATHODE BIAS RESISTOR OF 470 OHMS (MIN.)	2.5	MEGOHMS

^A THE DURATION OF THE VOLTAGE PULSE MUST NOT EXCEED 15 PERCENT OF ONE SCANNING CYCLE. IN A 525-LINE, 30-FRAME SYSTEM, 15 PERCENT OF ONE SCANNING CYCLE IS 2.5 MILLISECOND.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER - EACH TRIODE UNIT

HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.6	0.6	AMP.
PLATE VOLTAGE	90	250	VOLTS
GRID BIAS VOLTAGE	0	-8	VOLTS
PLATE CURRENT	10	9	MA.
PLATE RESISTANCE	6 700	7 700	OHMS
AMPLIFICATION FACTOR	20	20	
TRANSCONDUCTANCE	3 000	2 600	μMHOS
GRID VOLTAGE (APPROX.) FOR $I_b = 10 \mu\text{A}$.	—	-18	VOLTS

PLATE
2483
OCT. 1
1950

TUNG-SOL

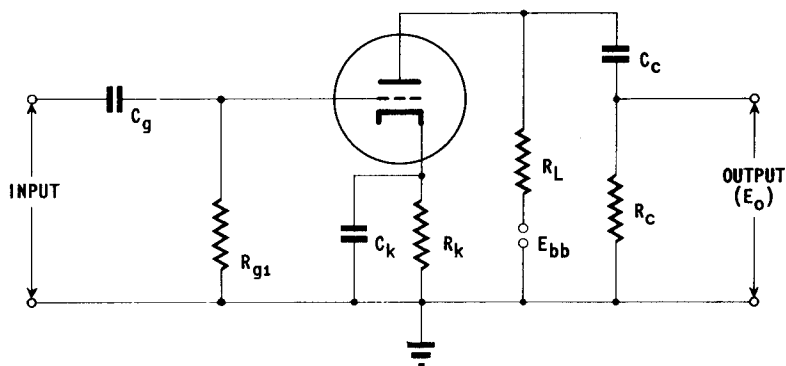
RESISTANCE-COUPLED AMPLIFIER

R_L 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	0	15	13	0	16	33	0	17	46
0.24	10	0.51	0	16	17	0	17	38	0	18	62
0.51	10	0.51	0	16	14	0	18	32	0	18	53
0.51	10	1.0	0	17	18	0	18	41	0	19	68

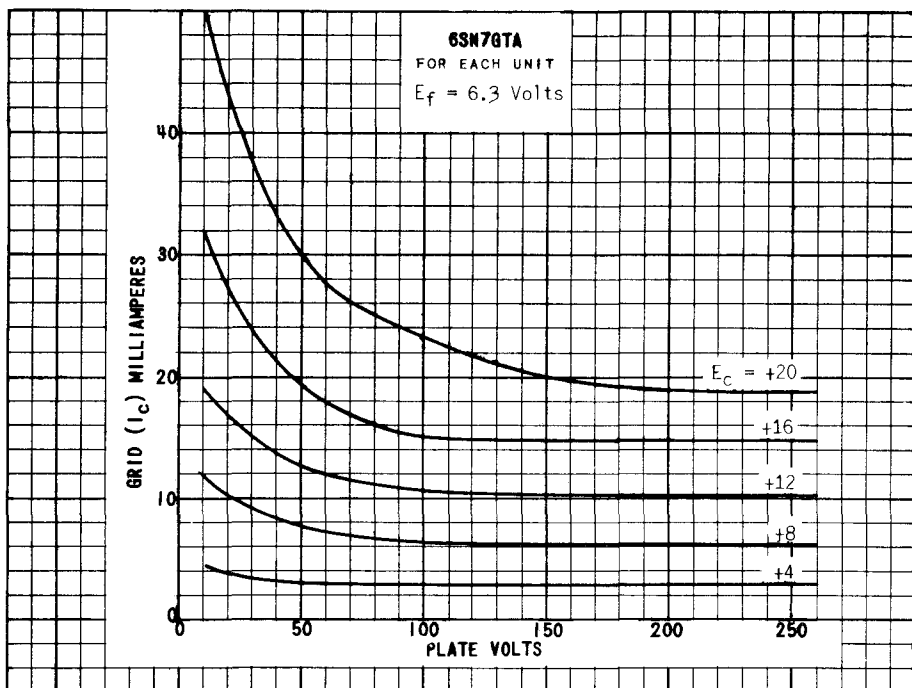
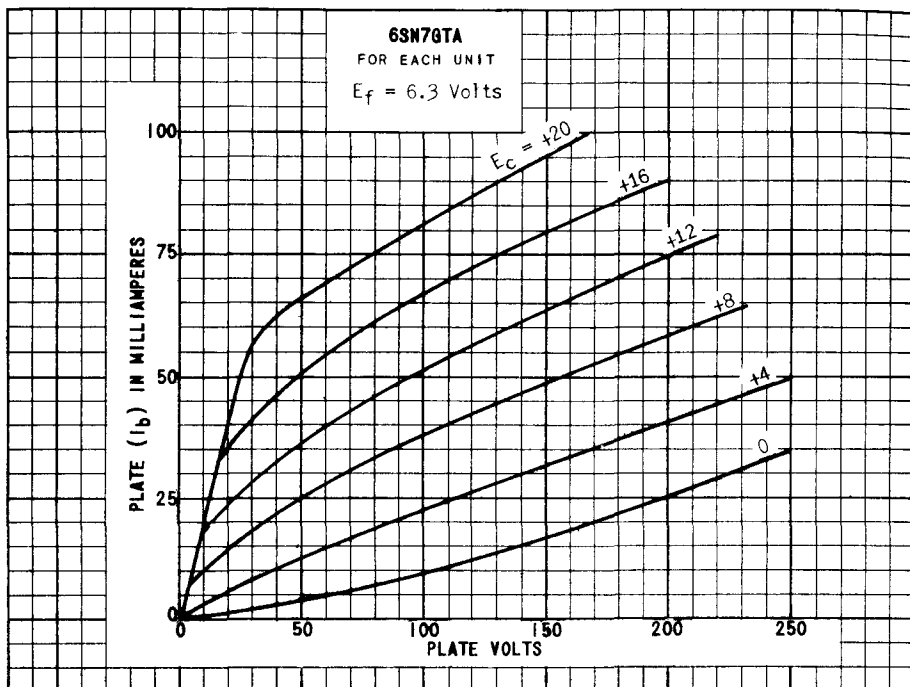
A VALUE OF R_{g1} IS NOT CRITICAL.

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 .



6SN7GTA

