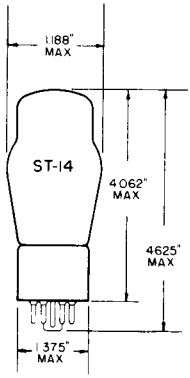
TUNG-SOL

BEAM POWER AMPLIFIER

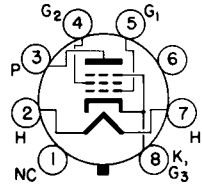


GLASS BULB
MEDIUM SHELL
7 PIN OCTAL 87-12
JEDEC 14-3

COATED UNIPOTENTICAL CATHODE

FOR AUDIO OUTPUT STAGES
OF RADIO RECEIVERS

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM
JEDEC 7AC

THE 6Y6G IS A BEAM POWER AMPLIFIER HAVING HIGH POWER SENSITIVITY AND HIGH POWER OUTPUT AT COMPARATIVELY LOW DC SUPPLY VOLTAGES.

HEATER CHARACTERISTICS AND RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	1250	MA.
HEATER SUPPLY LIMITS:			
VOLTAGE OPERATION		6.3±0.6	VOLTS
MAXIMUM HEATER CATHODE VOLTAGE:*			
HEATER NEGATIVE WITH RESPECT TO CATHODE		180	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		180	VOLTS

MAXIMUM RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	200	VOLTS
GRID #2 SUPPLY VOLTAGE	→ 200	VOLTS
GRID #2 VOLTAGE *	SEE J5-C4	
PLATE DISSIPATION	12.5	WATTS
GRID #2 DISSIPATION	1.75	WATTS
GRID #1 CIRCUIT RESISTANCE *		
FIXED BIAS	0.1	MEGOHM
SELF BIAS	0.5	MEGOHM

→INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

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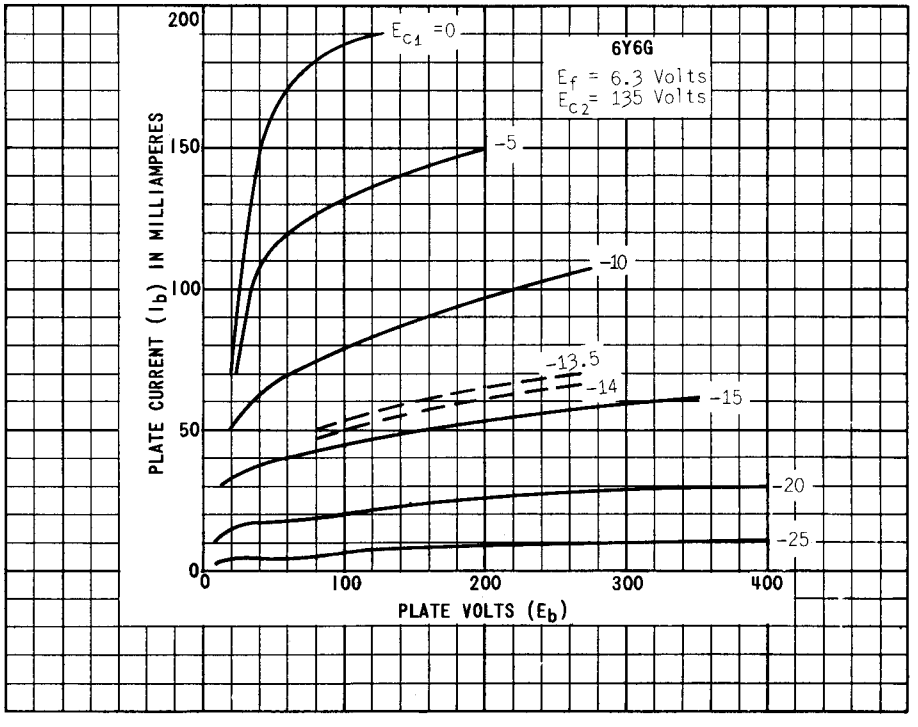
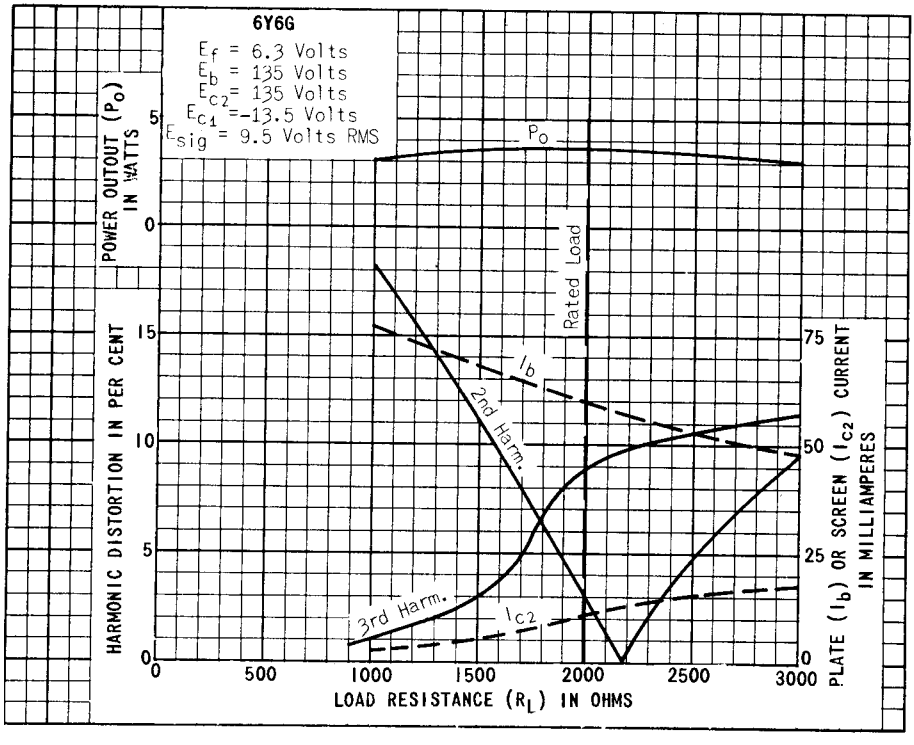
CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CHARACTERISTICS

CLASS A_1 AMPLIFIER

PLATE VOLTAGE	135	200	VOLTS
GRID #2 VOLTAGE	135	135	VOLTS
GRID #1 VOLTAGE	-13.5	-14	VOLTS
PEAK AF GRID #1 VOLTAGE	13.5	14	VOLTS
PLATE RESISTANCE (APPROX.)	9300	18 300	OHMS
TRANSCONDUCTANCE	7000	7100	μMHOS
ZERO-SIGNAL PLATE CURRENT	58	61	MA.
MAXIMUM-SIGNAL PLATE CURRENT	60	66	MA.
ZERO-SIGNAL GRID #2 CURRENT	3.5	2.2	MA.
MAXIMUM-SIGNAL GRID #2 CURRENT	11.5	9	MA.
LOAD RESISTANCE	2000	2600	OHMS
TOTAL HARMONIC DISTORTION (APPROX.)	10	10	PERCENT
POWER OUTPUT	3.6	6	WATTS





TUNG-SOL ELECTRIC INC., ELECTRON TUBE DIVISION, BLOOMFIELD, NEW JERSEY, U.S.A. OCTOBER 1, 1961 PLATE #6290