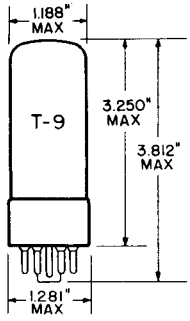
TUNG-SOL

DOUBLE BEAM PENTODE



GLASS BULB
INTERMEDIATE SHELL B8-6
OR
SHORT INTERMEDIATE
SHELL B8-58
8 PIN OCTAL
OUTLINE DRAWING
JEDEC 9-33 OR 9-44

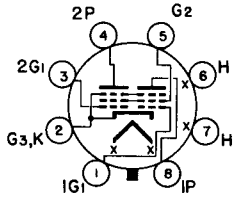
COATED UNIPOTENTIAL CATHODE

FOR

POWER OUTPUT TUBE IN

AIRCRAFT OR MOBILE SERVICE

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 8BU

THE 26A7GT IS A CATHODE TYPE TWIN BEAM POWER AMPLIFIER USING THE OCTAL BASE CONSTRUCTION. IT IS INTENDED FOR USE AS A PUSH-PULL OR PARALLEL CONNECTED POWER OUTPUT TUBE IN AIRCRAFT OR MOBILE SERVICE WHERE BOTH THE PLATE AND HEATER SUPPLY IS LIMITED TO 28 VOLTS.

DIRECT INTERELECTRODE CAPACITANCES

EACH UNIT

GRID TO PLATE: (G1 TO P)	1.2	pf
INPUT: G1 TO (H+K+G2+G3)	16	pf
OUTPUT: P TO (H+K+G2+G3)	13	pf

HEATER CHARACTERISTICS AND RATINGS

AVERAGE CHARACTERISTICS	26.5 VOLTS	600	MA.
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE		90	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		90	VOLTS

MAXIMUM RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

EACH UNIT

PLATE VOLTAGE	50	VOLTS
GRID 2 VOLTAGE	50	VOLTS
PLATE DISSIPATION	2	WATTS
GRID 2 DISSIPATION	0.5	WATTS

CONTINUED ON FOLLOWING PAGE

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CHARACTERISTICS

CLASS A1 AMPLIFIER

EACH UNIT

PLATE VOLTAGE	26.5	VOLTS
GRID 2 VOLTAGE	26.5	VOLTS
GRID 1 VOLTAGE [A]	-4.5	VOLTS
PEAK AF GRID 1 VOLTAGE	4.5	VOLTS
ZERO-SIGNAL PLATE CURRENT	20	MA.
MAXIMUM-SIGNAL PLATE CURRENT	20.5	MA.
ZERO-SIGNAL GRID 2 CURRENT	1.9	MA.
MAXIMUM-SIGNAL GRID 2 CURRENT	5.5	MA.
TRANSCONDUCTANCE	5700	μMHOS
LOAD RESISTANCE	1500	OHMS
TOTAL HARMONIC DISTORTION	7	PERCENT
MAXIMUM-SIGNAL POWER OUTPUT	165	MW.

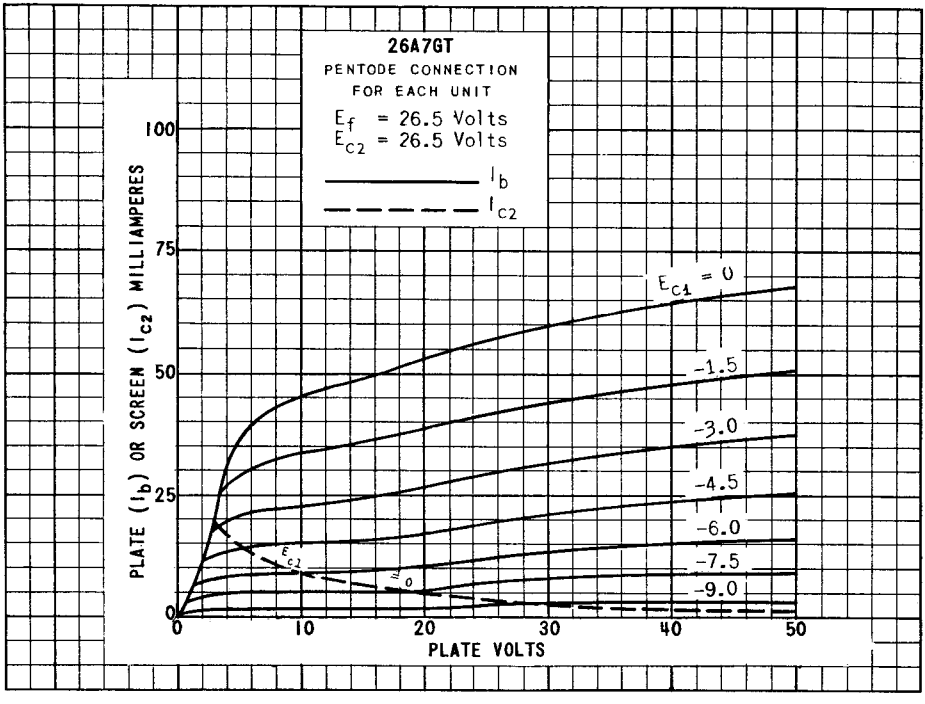
PUSH-PULL CLASS AB1 AMPLIFIER

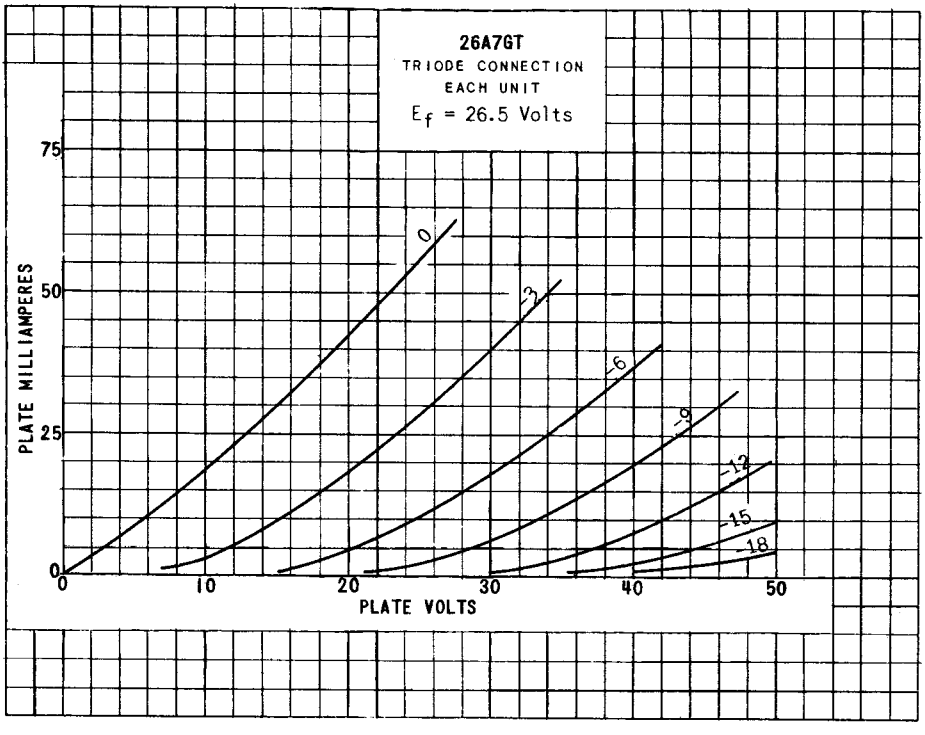
BOTH UNITS

PLATE VOLTAGE	26.5	VOLTS
GRID 2 VOLTAGE	26.5	VOLTS
GRID 1 VOLTAGE [A]	-7	VOLTS
PEAK AF GRID 1 TO GRID 1 VOLTAGE	14	VOLTS
ZERO-SIGNAL PLATE CURRENT	19	MA.
MAXIMUM-SIGNAL PLATE CURRENT	30	MA.
ZERO-SIGNAL GRID 2 CURRENT (APPROX.)	2	MA.
MAXIMUM-SIGNAL GRID 2 CURRENT (APPROX.)	8.5	MA.
EFFECTIVE LOAD RESISTANCE (PLATE TO PLATE)	2500	OHMS
TOTAL HARMONIC DISTORTION	5	PERCENT
MAXIMUM-SIGNAL POWER OUTPUT	500	MW.

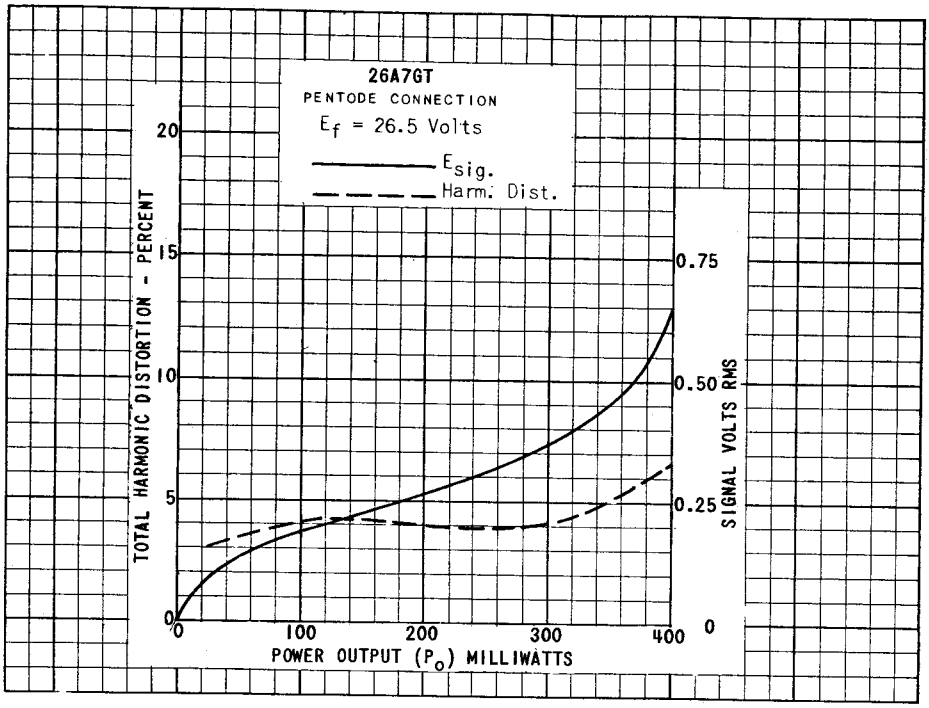
A

UNDER MAXIMUM RATED CONDITIONS, THE DC RESISTANCE IN EACH GRID CIRCUIT MAY BE AS HIGH AS 0.5 MEGOHM WITH CATHODE BIAS AND 0.1 MEGOHM WITH FIXED BIAS. WHEN THE PLATE VOLTAGE AND THE SCREEN VOLTAGE DO NOT EXCEED A MAXIMUM DESIGN VALUE OF 26.5 VOLTS, THE DC RESISTANCE IN THE GRID CIRCUIT MAY BE AS HIGH AS 0.5 MEGOHM WITH GRID-RESISTOR BIAS.





26A7GT


26A7GT
PENTODE CONNECTION
E_f = 26.5 Volts
$E_{sig.}$
Harm. Dist.
TOTAL HARMONIC DISTORTION - PERCENT
SIGNAL VOLTS RMS
POWER OUTPUT (P_o) MILLIWATTS
0
5
10
15
20
0.25
0.50
0.75
100
200
300
400