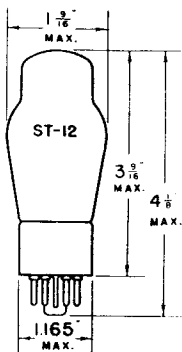


TUNG-SOL

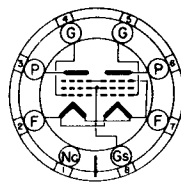
**TWIN PENTODE
POWER AMPLIFIER**



COATED FILAMENT

2.0 VOLTS 0.24 AMPERE
DC

GLASS BULB



G-8C

BOTTOM VIEW

SMALL 8 PIN OCTAL BASE

THE TUNG-SOL 1E7G COMBINES TWO FILAMENT TYPE POWER PENTODES IN A SINGLE BULB. IT IS DESIGNED FOR SERVICE AS A PUSH-PULL POWER AMPLIFIER IN BATTERY OPERATED RECEIVERS.

OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

EACH PENTODE SECTION

PLATE VOLTAGE	90	135	VOLTS
SCREEN VOLTAGE	90	135	VOLTS
CONTROL GRID VOLTAGE ^A	-3	-4.5	VOLTS
GRID CIRCUIT RESISTANCE MAX.			
FIXED BIAS	0.5	0.5	MEGOHM
SELF BIAS	1.0	1.0	MEGOHM
ZERO-SIGNAL PLATE CURRENT	3.8	7.5	MA.
ZERO-SIGNAL SCREEN CURRENT	1.1	2.2	MA.
TRANSCONDUCTANCE	1150	1425	μMHOS
AMPLIFICATION FACTOR	390	370	
LOAD RESISTANCE	20 000	16 000	OHMS
PEAK SIGNAL VOLTAGE	3	4.5	VOLTS
TOTAL DISTORTION	5.5	4.5	PER CENT
POWER OUTPUT	.110	.290	WATT

^A RETURN TO NEGATIVE FILAMENT (PIN #7)

CONTINUED NEXT PAGE

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CLASS A₁ PUSH-PULL AMPLIFIER

VALUES ARE FOR TWO TUBES

PLATE VOLTAGE	135	VOLTS
SCREEN VOLTAGE	135	VOLTS
CONTROL GRID VOLTAGE	-7.5	VOLTS
GRID CIRCUIT RESISTANCE		
FIXED BIAS	0.5	MEGOHM
SELF BIAS	1.0	MEGOHM
ZERO-SIGNAL PLATE CURRENT	14	MA.
MAX.-SIGNAL PLATE CURRENT	21	MA.
ZERO-SIGNAL SCREEN CURRENT	4	MA.
MAX.-SIGNAL SCREEN CURRENT	7	MA.
LOAD RESISTANCE PLATE TO PLATE	24 000	OHMS
PEAK SIGNAL VOLTAGE GRID TO GRID	15	VOLTS
TOTAL DISTORTION	5.5	PER CENT
THIRD HARMONIC	4.5	PER CENT
POWER OUTPUT ^P	.575	WATT

^P WITH A PEAK SIGNAL VOLTAGE (GRID TO GRID) OF 21 VOLTS, A POWER OUTPUT OF ONE WATT CAN BE OBTAINED WITH 10% DISTORTION. (CLASS A₂).

DIRECT INTERELECTRODE CAPACITANCES^S

	PENTODE A	PENTODE B	
CONTROL GRID TO FILAMENT	7.5	7.5	μf
PLATE TO FILAMENT	12	12	μf
CONTROL GRID TO PLATE	0.9	0.9	μf
CONTROL GRID A TO CONTROL GRID B		0.3	μf
PLATE A TO PLATE B		2.0	μf
CONTROL GRID B TO PLATE A		0.16	μf
CONTROL GRID A TO PLATE B		0.16	μf

PENTODE A - PENTODE WITH PLATE BROUGHT OUT TO PIN #6.

PENTODE B - PENTODE WITH PLATE BROUGHT OUT TO PIN #3.

^S WITH SHIELD