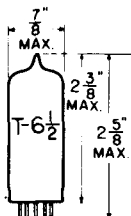


TUNG-SOL

BEAM PENTODE

MINIATURE TYPE



GLASS BULB

COATED FILAMENT

SERIES FILAMENT
 E_f APPLIED BETWEEN
 PINS #4 AND #5
 E_{g1} REFERRED TO PIN #4

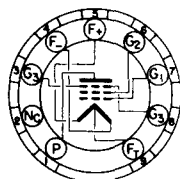
5.0 VOLTS
 230 MA.

PARALLEL FILAMENT
 E_f APPLIED BETWEEN
 PIN #9 AND PINS
 #4 & #5 TIED TO-
 GETHER.
 E_{g1} REFERRED TO PIN #9

2.5 VOLTS
 460 MA.

DC

ANY MOUNTING POSITION



BOTTOM VIEW
 MINIATURE BUTTON
 9 PIN BASE
 9L

THE 5A6 IS A MINIATURE FILAMENTARY TYPE PENTODE RF POWER AMPLIFIER, INTENDED FOR SERVICE WHERE MODERATE AMOUNTS OF RF POWER ARE DESIRED IN PORTABLE EQUIPMENT. IT WILL DELIVER 3 WATTS OF RF POWER WITH LOW DRIVING POWER AT 70 MEGACYCLES.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD	WITHOUT SHIELD	
GRID TO PLATE: (G_4 TO P) MAX.	0.10	0.15	$\mu\mu f$
INPUT: G_1 TO ($F+G_2+G_3$)	8.5	8.5	$\mu\mu f$
OUTPUT: P TO ($F+G_2+G_3$)	9.5	6	$\mu\mu f$

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD WB-210

CLASS B OR CLASS C AMPLIFIER

FILAMENT VOLTAGE ($\pm 15\%$)	2.5	5.0	VOLTS
MAXIMUM PLATE VOLTAGE	150		VOLTS
MAXIMUM GRID #3 VOLTAGE	0		VOLTS
MAXIMUM GRID #2 VOLTAGE	150		VOLTS
MAXIMUM NEGATIVE GRID #1 VOLTAGE	-75		VOLTS
MAXIMUM PLATE DISSIPATION	5		WATTS
MAXIMUM GRID #2 POWER INPUT	2		WATTS
MAXIMUM PLATE CURRENT	40		MA.
MAXIMUM GRID #1 CURRENT	3		MA.
MAXIMUM FREQUENCY FOR MAXIMUM PLATE INPUT POWER	100		MC

PLATE
 2270

NOV. 1,
 1949

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

RF AMPLIFIER AT 70 MC

	CLASS B		CLASS C		
FILAMENT VOLTAGE	2.5	5.0	2.5	5.0	VOLTS
FILAMENT CURRENT	460	230	460	230	MA.
DC PLATE VOLTAGE		150		150	VOLTS
GRID #3 VOLTAGE		0		0	VOLTS
DC GRID #2 VOLTAGE		150		150	VOLTS
DC GRID #1 VOLTAGE		-15		-24	VOLTS
PEAK RF GRID #1 VOLTAGE		23		35	VOLTS
GRID #2 RESISTOR		1 500		0	OHMS
GRID #1 RESISTOR		15 000		20 000	OHMS
DC PLATE CURRENT		40		40	MA.
DC GRID #2 CURRENT		7		11	MA.
DC GRID #1 CURRENT		1		1.2	MA.
GRID #1 DRIVING POWER (APPROX.)		60		100	MW.
USEFUL POWER OUTPUT		2.8		3.1	WATTS
TRIODE AMPLIFICATION FACTOR (APPROX. AT $I_b = 30$ MA.)				6.8	

