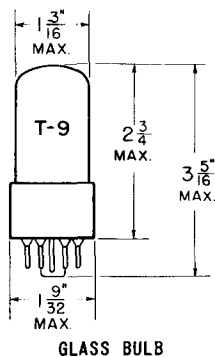


TUNG-SOL

PENTODE



COATED FILAMENT

SERIES FILAMENT
 E_f APPLIED BETWEEN
 PINS 2 AND 7
 E_{g1} REFERRED TO PIN 7

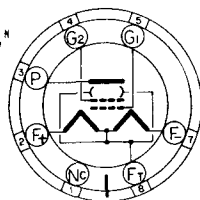
2.8 VOLTS
 50 MA.

PARALLEL FILAMENT
 E_f APPLIED BETWEEN PIN
 8 AND PINS 2 AND 7
 E_{g1} TIED TOGETHER
 REFERRED TO PIN 8

1.4 VOLTS
 100 MA.

AC OR DC

A SHUNTING RESISTOR MUST BE CONNECTED BETWEEN PINS 2 AND 8 FOR SERIES-FILAMENT OPERATION TO BY-PASS ANY CATHODE CURRENT IN EXCESS OF THE 6 MA. RATED MAXIMUM PER SECTION. AN ADDITIONAL SHUNTING RESISTOR MAY BE NECESSARY BETWEEN PINS 2 AND 7 IF OTHER TUBES USED IN SERIES-FILAMENT ARRANGEMENT CONTRIBUTE TO THE FILAMENT CURRENT OF THE 3Q5GT.



BOTTOM VIEW
 INTERMEDIATE
 SHELL
 7 PIN OCTAL
 7AP

ANY MOUNTING POSITION

THE 3Q5GT IS A FILAMENTARY TYPE BEAM POWER AMPLIFIER, CHARACTERIZED BY A LOW CURRENT DRAIN FILAMENT. IT IS DESIGNED FOR SERVICE IN THE OUTPUT STAGE OF THREE-WAY PORTABLE RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES

WITH NO EXTERNAL SHIELD

GRID TO PLATE: (G_1 TO P)	0.6	μf
INPUT: G_1 TO ($F+G_2+BP$)	8	μf
OUTPUT: P TO ($F+G_1+BP$)	6.5	μf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-210

	SERIES FILAMENT	PARALLEL FILAMENT	
FILAMENT VOLTAGE	2.8	1.4	VOLTS
MAXIMUM PLATE VOLTAGE	110	110	VOLTS
MAXIMUM GRID #2 VOLTAGE	110	110	VOLTS
MAXIMUM CATHODE CURRENT	6 ^A	12	MA.
MAXIMUM GRID #1 CIRCUIT RESISTANCE (SELF OR FIXED BIAS)	1	1	MEGOHM

^A FOR EACH 1.4 VOLT FILAMENT SECTION.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER - SERIES FILAMENT

FILAMENT VOLTAGE	2.8	2.8	VOLTS
FILAMENT CURRENT	50	50	MA.
PLATE VOLTAGE	90	110	VOLTS
GRID #2 VOLTAGE	90	110	VOLTS
GRID #1 VOLTAGE	-4.5	-6.6	VOLTS
PEAK AF SIGNAL VOLTAGE ^B	4.5	5.1	VOLTS
PLATE RESISTANCE	0.08	0.11	MEGOHM
TRANSCONDUCTANCE	2 000	2 000	μMHOS
PLATE CURRENT	8	8.5	MA.
GRID #2 CURRENT	1	1.1	MA.
LOAD RESISTANCE	8 000	8 000	OHMS
TOTAL HARMONIC DISTORTION	8.5	8.5	PERCENT
POWER OUTPUT	230	330	MW

CLASS A₁ AMPLIFIER - PARALLEL FILAMENT

FILAMENT VOLTAGE	1.4	1.4	1.4	VOLTS
FILAMENT CURRENT	100	100	100	MA.
PLATE VOLTAGE	85	90	110	VOLTS
GRID #2 VOLTAGE	85	90	110	VOLTS
GRID #1 VOLTAGE	-5	-4.5	-6.6	VOLTS
PEAK AF SIGNAL VOLTAGE ^B	5	4.5	5.4	VOLTS
PLATE RESISTANCE	0.07	0.09	0.1	MEGOHM
TRANSCONDUCTANCE	1 950	2 200	2 200	μMHOS
PLATE CURRENT	7	9.5	10	MA.
GRID #2 CURRENT	0.8	1.3	1.4	MA.
LOAD RESISTANCE	9 000	8 000	8 000	OHMS
TOTAL HARMONIC DISTORTION	5.5	6	6	PERCENT
POWER OUTPUT	250	270	400	MW

^B WITH PEAK AUDIO FREQUENCY SIGNAL EQUAL TO GRID BIAS VOLTAGE, THE POWER OUTPUT FOR THE 110 VOLT CONDITION IS 400 MW AT 10% DISTORTION FOR THE SERIES CONNECTION AND 500 MW AT 10% DISTORTION FOR THE PARALLEL CONNECTION.

SIMILAR TYPE REFERENCES: Ratings and characteristics are identical to type 3LP4.

