

TUNG-SOL

**BEAM PENTODE
MINIATURE TYPE**

COATED FILAMENT

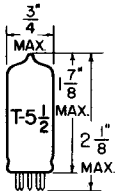
SERIES FILAMENT
E_f APPLIED BETWEEN
PINS 1 & 7
E_{g1} REFERRED TO PIN 1

PARALLEL FILAMENT
E_f APPLIED BETWEEN
PIN 5 & PINS 1 &
7 TIED TOGETHER
E_{g1} REFERRED TO PIN 1

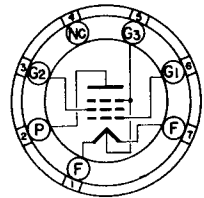
2.8 VOLTS
25 MA.

1.4 VOLTS
50 MA.

DC



GLASS BULB



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE

68X

A SHUNTING RESISTOR MUST BE CONNECTED BETWEEN PINS 1 & 5 FOR SERIES-FILAMENT OPERATION. ITS VALUE SHOULD BE SUCH THAT THE VOLTAGE ACROSS THE SHUNTED SECTION IS EQUAL TO THE VOLTAGE BETWEEN PINS 5 & 7. AN ADDITIONAL SHUNTING RESISTOR MAY BE NECESSARY BETWEEN PINS 1 AND 7 IF OTHER TUBES USED IN SERIES-FILAMENT ARRANGEMENT CONTRIBUTE TO THE FILAMENT CURRENT OF THE 3E5.

ANY MOUNTING POSITION

THE 3E5 IS A FILAMENTARY TYPE BEAM PENTODE POWER AMPLIFIER USING THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED SPECIFICALLY FOR USE IN THE OUTPUT STAGE OF PORTABLE RECEIVERS.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

	PARALLEL FILAMENT	SERIES FILAMENT	
FILAMENT VOLTAGE	1.4	2.8	VOLTS
MAXIMUM PLATE VOLTAGE	110	110	VOLTS
MAXIMUM GRID #2 VOLTAGE	110	110	VOLTS
MAXIMUM CATHODE CURRENT	8	4 ^A	MA.

^A EACH 1.4 VOLTS FILAMENT SECTION.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

	PARALLEL FILAMENT		SERIES FILAMENT		
FILAMENT VOLTAGE	1.4	1.4	2.8	2.8	VOLTS
FILAMENT CURRENT	50	50	25	25	MA.
PLATE VOLTAGE	67.5	90	67.5	90	VOLTS
GRID #2 VOLTAGE	67.5	90	67.5	90	VOLTS
GRID #1 VOLTAGE	-5	-8	-5	-8	VOLTS
PEAK AF GRID #1 VOLTAGE	5	8	5	8	VOLTS
PLATE RESISTANCE	120 000	140 000	110 000	120 000	OHMS
TRANSCONDUCTANCE	1 300	1 200	1 200	1 100	μMHOS
LOAD RESISTANCE	7 000	8 000	7 000	8 000	OHMS
TOTAL HARMONIC DISTORTION	7.5	9.5	10.5	11	PERCENT
POWER OUTPUT	100	200	90	175	MW.

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PLATE
2449
AUG. 1
1950