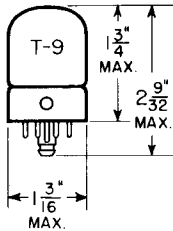


TUNG-SOL

DOUBLE TRIODE



GLASS BULB

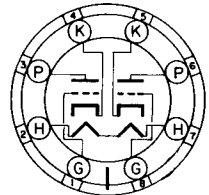
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 300 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

LOCK-IN  
8 PIN BASE  
85\*

THE 7F8 COMBINES TWO HIGH TRANSCONDUCTANCE TRIODES IN THE LOCK-IN CONSTRUCTION. IT IS DESIGNED FOR USE AT FREQUENCIES UP TO 300 OR 400 MC. IT MAY ALSO BE USED AS A PUSH-PULL UHF AMPLIFIER AND IS PARTICULARLY WELL ADAPTED FOR USE AS A CONVERTER FOR THE NEW FM AND TELEVISION BANDS BECAUSE OF THE LOW EQUIVALENT NOISE RESISTANCE OBTAINED WITH A TRIODE CONVERTER.

DIRECT INTERELECTRODE CAPACITANCES

WITH RMA SHIELD #308 CONNECTED TO CATHODE

GRID TO PLATE: (G TO P) EACH UNIT	1.7	μμf
INPUT: G TO (H+K) EACH UNIT	2.8	μμf
OUTPUT: P TO (H+K) EACH UNIT	1.4	μμf
GRID TO GRID: (1G TO 2G) MAX.	0.1	μμf
PLATE TO PLATE: (1P TO 2P) MAX.	0.4	μμf
HEATER TO CATHODE: <sup>A</sup> (H TO K) EACH UNIT	2.8	μμf

<sup>A</sup> EXTERNAL SHIELD CONNECTED TO GROUND.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD W8-210

EACH TRIODE UNIT

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM POSITIVE DC GRID VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION <sup>B</sup>	3.5	VOLTS
MAXIMUM GRID CIRCUIT RESISTANCE	0.5	MEG OHM

<sup>B</sup> MAXIMUM LIMITING VALUE FOR SINGLE TRIODE OPERATION OR TOTAL ALLOWABLE DISSIPATION FOR BOTH SECTIONS OPERATING SIMULTANEOUSLY.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER - EACH TRIODE UNIT

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	300	MA.
PLATE VOLTAGE	250	VOLTS
GRID RESISTOR (SELF BIAS)	500	OHMS
PLATE CURRENT	6	MA.
TRANSCONDUCTANCE	3300	μMHOS
AMPLIFICATION FACTOR	48	
GRID VOLTAGE (APPROX.) FOR I <sub>b</sub> = 10 μA.	-11	VOLTS

PLATE  
2258  
OCT. 1,  
1949

