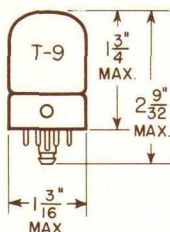


TUNG-SOL

DOUBLE TRIODE

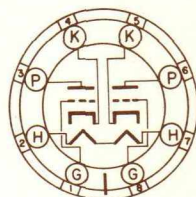


GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
12.6 VOLTS 150 MA.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

LOCK-IN
8 PIN BASE

8BW

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

EXTERNAL SHIELD #308 CONNECTED TO PINS #4 & #5

GRID TO PLATE: (G TO P) EACH SECTION	1.6	←	μf
INPUT: G TO (H+K) EACH SECTION	2.8		μf
OUTPUT: P TO (H+K) EACH SECTION	1.4		μf
GRID TO GRID: (G TO G) MAX.	0.1		μf
PLATE TO PLATE: (P TO P) MAX.	0.5		μf
HEATER TO CATHODE: (H TO K) EACH SECTION	2.8		μf
EXTERNAL SHIELD GROUNDED			

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM PLATE DISSIPATION (EACH SECTION)	3.5	WATTS
MAXIMUM TOTAL PLATE DISSIPATION (BOTH SECTIONS)	3.5	WATTS
MAXIMUM GRID CIRCUIT RESISTANCE (CATHODE BIAS)	0.5	MEGOHM
MAXIMUM GRID CIRCUIT RESISTANCE (FIXED BIAS)	0.1	MEGOHM

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER - EACH TRIODE UNIT

HEATER VOLTAGE (BOTH SECTIONS)	6.3	VOLTS
HEATER CURRENT (BOTH SECTIONS)	300	MA.
PLATE VOLTAGE	250	VOLTS
CATHODE-BIAS RESISTOR	500	OHMS
AMPLIFICATION FACTOR	48	
TRANSCONDUCTANCE	3 300	μMHOS
PLATE CURRENT	6	MA.
GRID VOLTAGE (APPROX.) FOR $I_b = 10 \mu A$.	-11	VOLTS

→ INDICATES A CHANGE

