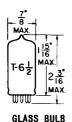
-- TUNS-SOL -

TRIODE TETRODE MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE

HEATER
4.7 VOLTS 0.6 AMP.
AC OR DC

ANY MOUNTING POSITION



BÖTTOM VIEW
MINIATURE BUTTON
9 PIN BASE
9FX

THE 5CL8 IS A MINIATURE TRIODE TETRODE DESIGNED FOR USE AS A VHF OSCILLATOR-MIXER. THERMAL CHARACTERISTICS OF THE HEATER ARE CONTROLLED SUCH THAT HEATER VOLTAGE SURGES DURING THE WARM-UP CYCLE ARE MINIMIZED PROVIDED IT IS USED WITH OTHER TYPES WHICH ARE SIMILARLY CONTROLLED. EXCEPT FOR HEATER RATINGS, THE 5CL8 IS IDENTICAL TO THE 6CL8.

DIRECT INTERELECTRODE CAPACITANCES

TRIODE:	WITH SHIELD #315	WITHOUT Shield	
GRID TO PLATE (G TO P)	1.8	1.8	μμ f
INPUT: G TO (H + K) OUTPUT: P TO (H + K)	2.7 1.2	2.7 0.4	μμ f μμ f
, ,			,, -
TETRODE: GRID TO PLATE (G_4 TO P) (MAX.)	.016	.028	6
INPUT: G_4 TO $(H+K+G_2)$	5.0	5.0	μμf jμtf
OUTPUT: P TO (H+K+G2)	3.0	2.0	$\mu\mu$ f
CATHODE TO HEATER (EITHER SECTION APPROX.)	2.5	2.5	$\mu\mu$ f

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

	TRIODE	TETRODE	
HEATER VOLTAGE	4.7	4.7	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK	200	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC	100	100	VOLTS
TOTAL DC AND PEAK	200	200	VOLTS
MAXIMUM PLATE VOLTAGE	300	300	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE		300	VOLTS
MAXIMUM GRID #2 VOLTAGE	SEE RATIN	G CHART	
MAXIMUM PLATE DISSIPATION	2.7	2.8	WATTS
MAXIMUM GRID #2 DISSIPATION		0.5	WATT
MAXIMUM POSITIVE GRID #1 VOLTAGE	0	0	VOLTS

CONTINUED ON FOLLOWING PAGE

--- TUNG-SOL ---

CONTINUED FROM PRECEDING PAGE

RATINGS-CONT'D.

	TRIODE	TETRODE	
MAXIMUM GRID #1 CIRCUIT RESISTANCE:			
FIXED BIAS	0.5	0.25	MEGOHM
SELF BIAS	1.0	1.0	MEGOHM
HEATER WARM-UP TIME*	1:	1.0	SECONDS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

HEATER VOLTAGE	4.7	4.7	VOLTS
HEATER CURRENT	0.6	0.6	AMP.
PLATE VOLTAGE	125	125	VOLTS
GRID #2 VOLTAGE		125	VOLTS
GRID #1 VOLTAGE	0	-1.0	VOLTS
CATHODE BIAS RESISTOR	56		OHMS
AMPLIFICATION FACTOR	40		
PLATE RESISTANCE (APPROX.)	.005	0.1	MEGOHM
TRANSCONDUCTANCE	8 000	5 800	μ MHOS
PLATE CURRENT	15	12	MA.
GRID #2 CURRENT		4.0	MA.
GRID #1 VOLTAGE (APPROX.)			
FOR $I_b = 10 \mu A$. DC	- 9	-10	VOLTS

^{*}HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

SINILAR TIPE REFERENCE: Except for heater ratings and heater warm-up time the SCL8 is identical to the SCL8.

PRESTOR IN V. S. A.

