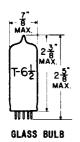
### - TUMB-SOL -

# TRIODE MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE HEATER

ANY MOUNTING POSITION CONTROL OF HEATER CHARACTERISTICS APPLIES ONLY TO 600 MA. HEATER CONNECTION.



BOTTOM VIEW
MINIATURE BUTTON
9 PIN BASE
9AG

THE 1284A IS A LOW-MU, HIGH PERVEANCE TRIODE USING THE 9 PIN MINIATURE CONSTRUCTION AND HAS BEEN DESIGNED FOR USE IN 600 MA. SERIES HEATER OPERATED RECEIVERS. IT IS INTENDED FOR USE AS A VERTICAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS AND OTHER APPLICATION WHERE HIGH PEAK CURRENTS MUST BE DEVELOPED WITH LOW SUPPLY VOLTAGES. THERMAL CHARACTERISTICS OF THE HEATER HAVE BEEN CONTROLLED SUCH THAT HEATER VOLTAGE SURGES DURING THE WARM-UP CYCLE ARE MINIMIZED PROVIDED IT IS USED WITH OTHER TYPES WHICH ARE SIMILARLY CONTROLLED. WITH THE EXCEPTION OF CONTROL OF THE HEATER THERMAL CHARACTERISTICS, ITS CHARACTERISTICS ARE IDENTICAL TO THE 1284.

#### DIRECT INTERELECTRODE CAPACITANCES - APPROX.

GRID TO PLATE: G TO P	4.8	иµ f
INPUT: G TO (H+K)	5.0	ии f
OUTPUT: P TO (H+K)	1.5	ии f

## RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

CLASS A <sub>1</sub> Amplifier	DEFLECTION	
6.3	6.3	VOLTS
200	200	VOLTS
100 200	100 200	VOLTS VOLTS
550	550	VOLTS
	1000 _	VOLTS
5.5	5.5 <sup>8</sup>	WATTS
	250	VOLTS
	30	MA.
	105	MA.
0.47	2.2	MEGOHM MEGOHMS
_		SECONDS
	AMPLIFIER 6.3  200  100 200 550 5.5 0.47 2.2	AMPLIFIER AMPLIFIER 6.3  200  200  100  100  200  550  550   1000  5.5  5.5   250   30   105  0.47

AFOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCASTING STATIONS; FEDERAL COMMUNICATIONS COMMISSION". THE DUTY CYCLE OF THE VOLTAGE PULSE NOT TO EXCEED 15 PERCENT OF A SCANNING CYCLE.

CONTINUED ON FOLLOWING PAGE

BIN STAGES OPERATING WITH GRID-LEAK BIAS, AN ADEQUATE CATHODE BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

<sup>\*</sup>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.

### TUNE-SOL

CONTINUED FROM PRECEDING PAGE

### TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

HEATER VOLTAGE (PARALLEL CONNECTION)	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
PLATE VOLTAGE	150	VOLTS
GRID VOLTAGE	-17.5	VOLTS
PLATE CURRENT	34	MA.
AMPLIFICATION FACTOR	6.5	
PLATE RESISTANCE (APPROX.)	1 030	OHMS
TRANSCONDUCTANCE	6 300	<b>μмно</b> s
PLATE CURRENT E <sub>C</sub> = -23 VOLTS	9.6	MA.
GRID VOLTAGE (APPROX.) FOR 1 = 200 MA.	-32	VOLTS