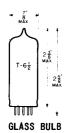
### TUNG-SOL -

### DOUBLE TRIODE

MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.6 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW SMALL BUTTON 9 PIN BASE 9EF

THE 6CS7 IS A DOUBLE TRIODE IN THE 9 PIN MINIATURE CONSTRUCTION. SECTION #1 IS INTENDED FOR OPERATION AS A VERTICAL DEFLECTION OSCILLATOR AND SECTION #2 AS A VERTICAL DEFLECTION AMPLIFIER. THERMAL CHARACTERISTICS 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.

## DIRECT INTERELECTRODE CAPACITANCES WITH NO EXTERNAL SHIELD

	TRIODE #1A	TRIODE #2	
GRID TO PLATE (G TO P)	2,6	2.6	ии f
INPUT: G TO (K+H+E.S.)	1.8	3.0	µц f
OUTPUT: P TO (K+H+E.S.)	0.5	0.5	ии f

# RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM VERTICAL DEFLECTION OSCILLATOR AND AMPLIFIER B

	TRIODE #1 <sup>A</sup> OSCILLATOR		TRIODE #2 AMPLIFIER	
HEATER VOLTAGE		6.3		VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE				
HEATER NEGATIVE WITH RESPECT TO CATHODE				
TOTAL DC AND PEAK		200		VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE				
DC		100		VOLTS
TOTAL DC AND PEAK		200		VOLTS
MAXIMUM DC PLATE VOLTAGE	500		500	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE				
VOLTAGE (ABSOLUTE MAX.)			2 200	VOL TS
MAXIMUM PEAK NEGATIVE PULSE GRID VOLTAGE	400		250	VOLTS
MAXIMUM PLATE DISSIPATION C	1.25		6.5	WATTS
MAXIMUM AVERAGE CATHODE CURRENT	20		30	MA.
MAXIMUM PEAK CATHODE CURRENT	70		105	MA.
MAXIMUM GRID CIRCUIT RESISTANCE	2.2		2.2	MEGOHMS
HEATER WARM-UP TIME D		11		SECONDS

ATRIODE #1 CONNECTS TO PINS #6, #7 AND #8. TRIODE #2 CONNECTS TO PINS #1, #3 AND #9.

BFOR 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 MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

 $<sup>^{</sup>m C}_{
m IN}$  stages operating with grid LFAK bias, an adequate cathode bias resistor or other suitable means is required to protect the tube in absence of excitation.

DHEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF 175 RATED VOLTAGE AFTER APPLYING 4 TIMES RATED MEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

## ---- TUNS-SOL ---

#### CONTINUED FROM PRECEDING PAGE

### TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

	TRIODE #1"	TRIODE #2	
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.6	0.6	AMP.
PLATE VOLTAGE	250	250	VOLTS
GRID VOLTAGE	-8.5	-10.5	VOLTS
PLATE CURRENT	10.5	19.0	MA.
TRANSCONDUCTANCE	2 200	4 500	μ <b>M</b> H05
AMPLIFICATION FACTOR	17.0	15.5	
PLATE RESISTANCE	7 700	3 450	OHMS
PLATE CURRENT AT E <sub>C</sub> =-16 VOLTS		3.0	MA.
GRID VOLTAGE FOR I 1-1044	-24		VOL TS
GRID VOLTAGE FOR THE 504A		-22	VOLTS

Atriode #1 connects to Pins #6, #7 and #8. Triode #2 connects to Pins #1, #3 and #9.