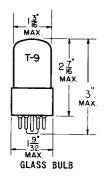
DOUBLE TRIODE



COATED UNIPOTENTIAL CATHODE

HEATER

9.7 VOLTS 0.60 AMP.

ANY MOUNTING POSITION



BOTTOM VIEW

SHORT INTERMEDIATE SHELL

8 PIN BASE 8 e D

THE 10EG7 IS A DISSIMILAR DOUBLE TRIODE INTENDED FOR USE IN TELEVISION RECEIVERS EMPLOYING SERIES STRING HEATERS. SECTION #1 IS DESIGNED FOR USE AS A VERTICAL DEFLECTION OSCILLATOR; SECTION #2 IS DESIGNED FOR USE AS A VERTICAL DEFLECTION AMPLIFIER.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

	3EC1. #1	SECI. #2	
GRID TO PLATE	4.4	9.5	μμ f
INPUT: G TO (H + K)	2.2	7.0	$\mu\mu$ f
OUTPUT: P TO (H + K)	0.6	1.6	$\mu\mu$ f

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

VERTICAL DEFLECTION OSCILLATOR AND AMPLIFIER B

	SECT. #1 SCILLATOR		SECT. #2 Amplifier	
HEATER VOLTAGE		9.7		VOLTS
MAXIMUM PLATE VOLTAGE	330		330	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE			1500	VOLTS
MAXIMUM PEAK NEGATIVE PULSE GRID VOLTAGE	400		250	VOLTS
MAXIMUM PLATE DISSIPATION ^C	1.5		10	WATTS
MAXIMUM AVERAGE CATHODE CURRENT	22		50	MA.
MAXIMUM PEAK CATHODE CURRENT	77		175	MA.
MAXIMUM GRID CIRCUIT RESISTANCE;				
SELF BIAS	2.2		2.2	MEGOHMS
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
HEATER WARM-UP TIME (APPROX.)*		11.0		SECONDS

TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

	SECT. ≢1 ^D	SECT	. ≇2 ⁰
HEATER VOLTAGE		9.7	VOLTS
HEATER CURRENT		0.60	AMP.
PLATE VOLTAGE	250	1!	50 volts
GRID #1 VOLTAGE	-11	-17	.5 VOLTS
PLATE CURRENT	5.5		45 MA.
TRANSCONDUCTANCE	2000	750	00 <i>µ</i> мноs
AMPLIFICATION FACTOR	17.5	6	.0
PLATE RESISTANCE (APPROX.)	8750	80	00 онмѕ
E_C FOR 15 = 10 μ A (APPROX.)	-20		VOLTS
E_{C}^{-} FOR I_{b}^{-} 100 μ A (APPROX.)			40 VOLTS
Ib AT Ec =-25 Vdc			8 MA.
Ib WITH Eb = 60 V AND Ec =OV			95 ма.

DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT COMPONENT VARIATION,

BFOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

^{*}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.

 $^{^{}m C}$ in 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.

 $^{^{\}mbox{\scriptsize D}}\mbox{\scriptsize SECTION}$ *1 CONNECTS TO PINS 4, 5, & 6. SECTION *2 CONNECTS TO PINS 1, 2, & 3.