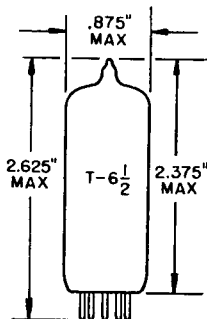


## TUNG-SOL

## TRIODE - PENTODE

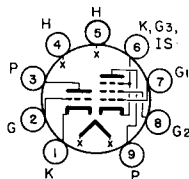
## MINIATURE TYPE

FOR COLOR  
AND BLACK-AND-WHITE  
T.V. RECEIVERS



GLASS BULB  
SMALL BUTTON 9 PIN  
BASE E9-1  
OUTLINE DRAWING  
JEDEC 6-3

COATED UNIPOTENTIAL CATHODE  
ANY MOUNTING POSITION



BOTTOM VIEW  
BASING DIAGRAM  
JEDEC 9DX

THE 10JA8 IS A HIGH-MU TRIODE AND A PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. THE TRIODE UNIT IS DESIGNED FOR SERVICE AS A SYNC SEPARATOR, SYNC CLIPPER AND PHASE INVERTER WHILE THE PENTODE UNIT IS DESIGNED FOR OPERATION AS A VIDEO AMPLIFIER. EXCEPT FOR HEATER RATINGS AND CHARACTERISTICS THE 10JA8 IS IDENTICAL TO THE 6JA8.

## DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

	TRIODE UNIT	PENTODE UNIT	
GRID 1 TO PLATE	4.6	MAX. 0.1	pf
INPUT	2.6	11	pf
OUTPUT	2.6	4.4	pf
COUPLING:			
PENTODE GRID1 TO TRIODE PLATE	MAX. 0.005		pf
PENTODE PLATE TO TRIODE GRID	MAX. 0.018		pf
PENTODE PLATE TO TRIODE PLATE	MAX. 0.17		pf

CONTINUED ON FOLLOWING PAGE

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**HEATER CHARACTERISTICS AND RATINGS**

DESIGN MAXIMUM VALUES -SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	10.5 VOLTS	450	MA.
HEATER WARM-UP TIME	APPROX.	11	SECONDS
LIMITS OF SUPPLIED CURRENT	450 ± 30		MA.

HEATER-CATHODE VOLTAGE:	TRIODE UNIT	PENTODE UNIT	
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK	200	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC COMPONENT	100	100	VOLTS
TOTAL DC AND PEAK	200	200	VOLTS

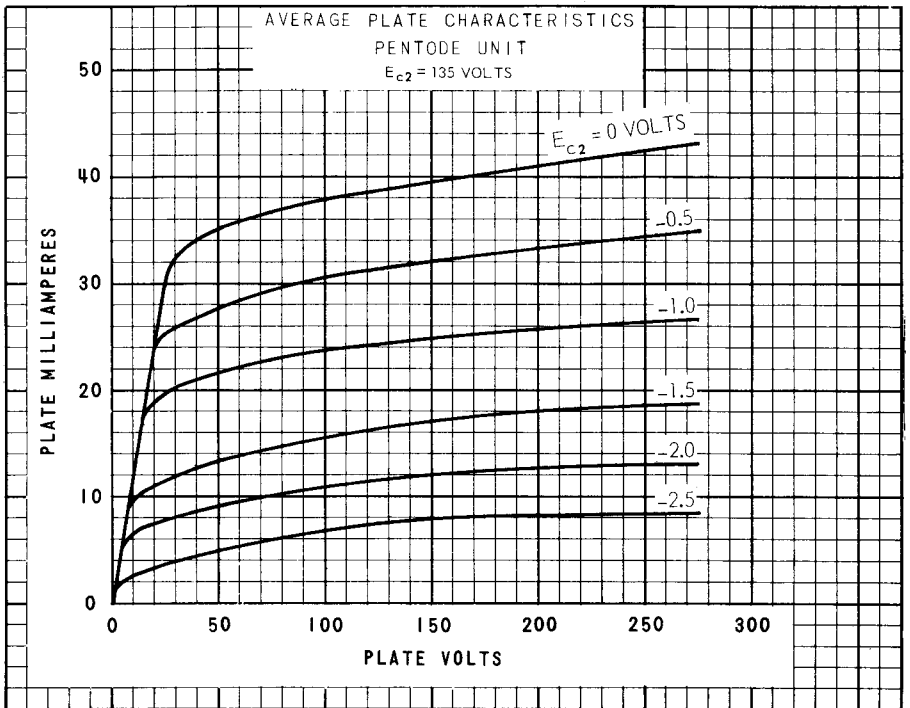
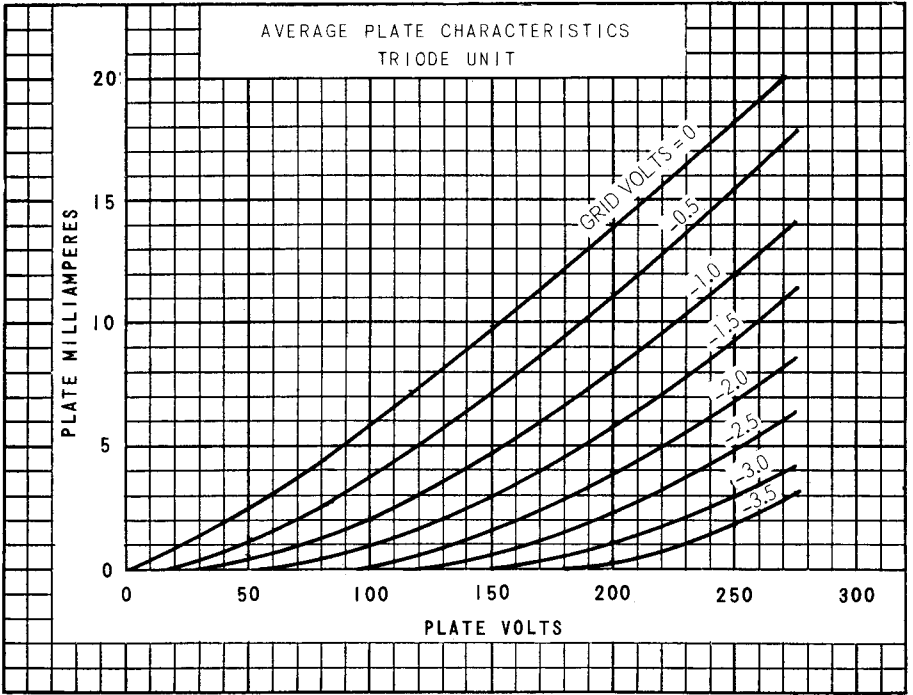
**MAXIMUM RATINGS**

DESIGN MAXIMUM RATINGS-SEE EIA STANDARD RS-239

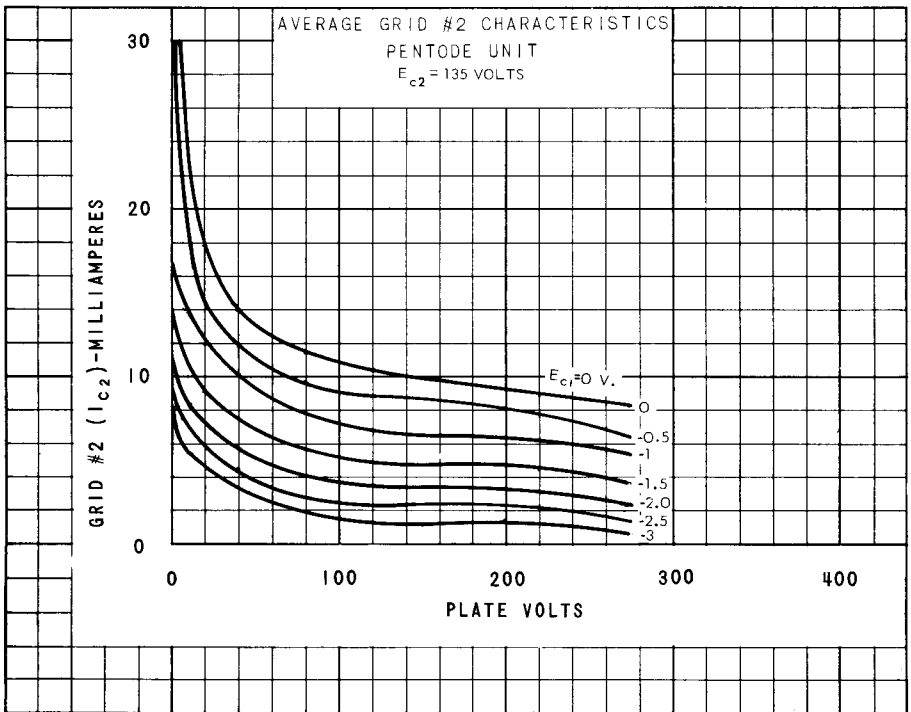
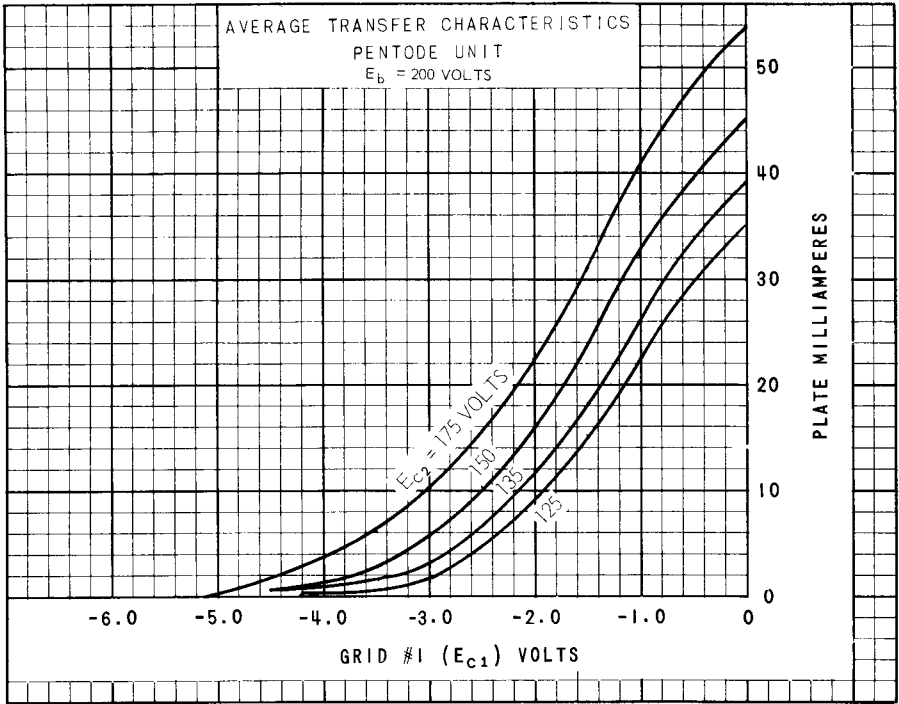
	TRIODE UNIT	PENTODE UNIT	
PLATE VOLTAGE	300	300	VOLTS
GRID2 SUPPLY VOLTAGE	-	330	VOLTS
GRID2 VOLTAGE		SEE RATING CHART	
PLATE DISSIPATION	1	5	WATTS
GRID2 DISSIPATION	-	1.5	WATTS
POSITIVE GRID1 BIAS VOLTAGE	0	0	VOLTS
GRID1 CIRCUIT RESISTANCE			
FIXED BIAS	0.5	0.25	MEGOHM
CATHODE RESISTOR BIAS	1.0	1.0	MEGOHM

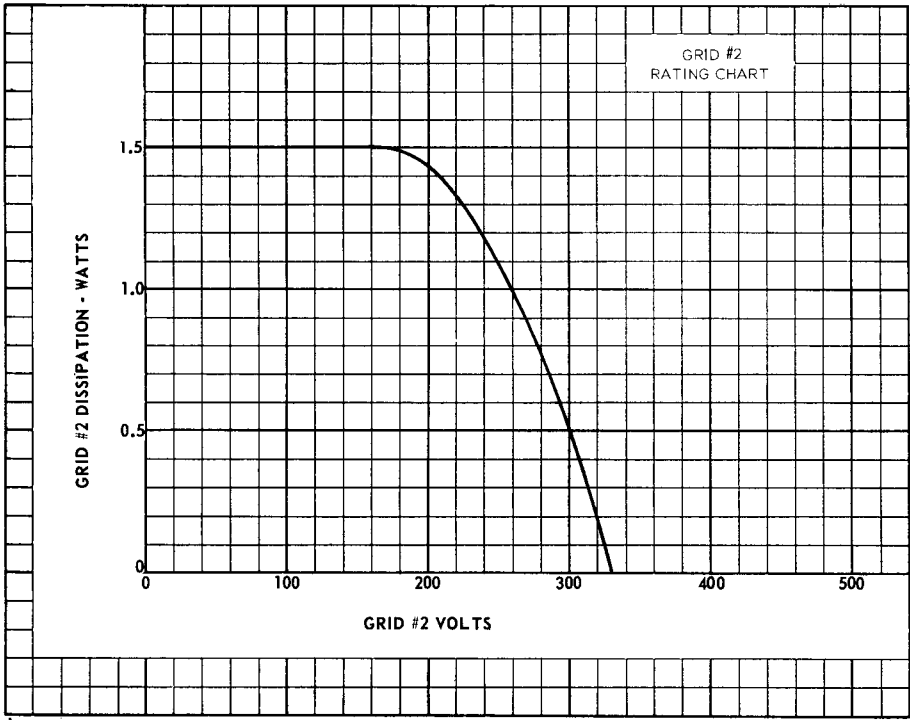
**CHARACTERISTICS AND TYPICAL OPERATION**

TRIODE UNIT:			
PLATE VOLTAGE		135	200 VOLTS
GRID VOLTAGE		-2	-2 VOLTS
PLATE CURRENT		1	3.5 MA.
TRANSCONDUCTANCE		1,550	3,700 $\mu$ MHOS
AMPLIFICATION FACTOR		60	70
PLATE RESISTANCE		39,000	19,000 OHMS
GRID 1 VOLTAGE FOR $I_b = 10 \mu A$		-4.8	-7 VOLTS
PENTODE UNIT:			
PLATE VOLTAGE	30	135	200 VOLTS
GRID 2 VOLTAGE	135	135	135 VOLTS
GRID1 VOLTAGE	0	-1.5	-1.5 VOLTS
PLATE CURRENT	32	17	18 MA.
GRID 2 CURRENT	14	4.2	4 MA.
TRANSCONDUCTANCE	-	12,600	14,000 $\mu$ MHOS
PLATE RESISTANCE	-	66,000	70,000 OHMS
GRID 1 VOLTAGE FOR $I_b = 10 \mu A$	-	-5	-5 VOLTS



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