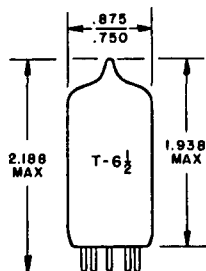


TUNG-SOL

TRIODE - PENTODE

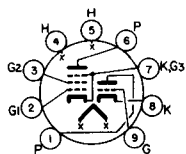
OUTLINE DRAWING
JEDEC 6-2

BUTTON BASE
9 PIN JEDEC E9-1

MINIATURE - TYPE

FOR
VIDEO AMPLIFIER
AND
SYNC SEPARATOR USE
IN TV APPLICATIONS

COATED UNIPOTENTIAL CATHODES
ANY MOUNTING POSITION

BASING DIAGRAM
JEDEC 9AE

BOTTOM VIEW

THE 6AX8 IS A TRIODE AND PENTODE IN THE 9-PIN MINIATURE CONSTRUCTION. IT IS SPECIFICALLY DESIGNED FOR VIDEO AMPLIFIER AND SYNC SEPARATOR SERVICE IN T.V. RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES

WITH EXTERNAL SHIELD #315 CONNECTED TO CATHODE OF
UNIT UNDER TEST

TRIODE UNIT:

GRID TO PLATE	1.8	pf
GRID TO CATHODE AND HEATER	2.5	pf
PLATE TO CATHODE AND HEATER	1	pf

PENTODE UNIT:

GRID 1 TO PLATE	MAX.	0.006	pf
GRID 1 TO CATHODE & GRID 3 & INTERNAL SHIELD, GRID 2, AND HEATER		5	pf
PLATE TO CATHODE & GRID 3 & INTERNAL SHIELD, GRID 2, AND HEATER		3.5	pt
HEATER TO CATHODE - EACH UNIT		3.5 ^x	pf

X - EXTERNAL SHIELD #315 CONNECTED TO GROUND

HEATER CHARACTERISTICS AND RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	450	mA
PEAK HEATER - CATHODE VOLTAGE: EACH UNIT			
HEATER NEGATIVE WITH RESPECT TO CATHODE		90	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		90	VOLTS

CONTINUED ON FOLLOWING PAGE

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

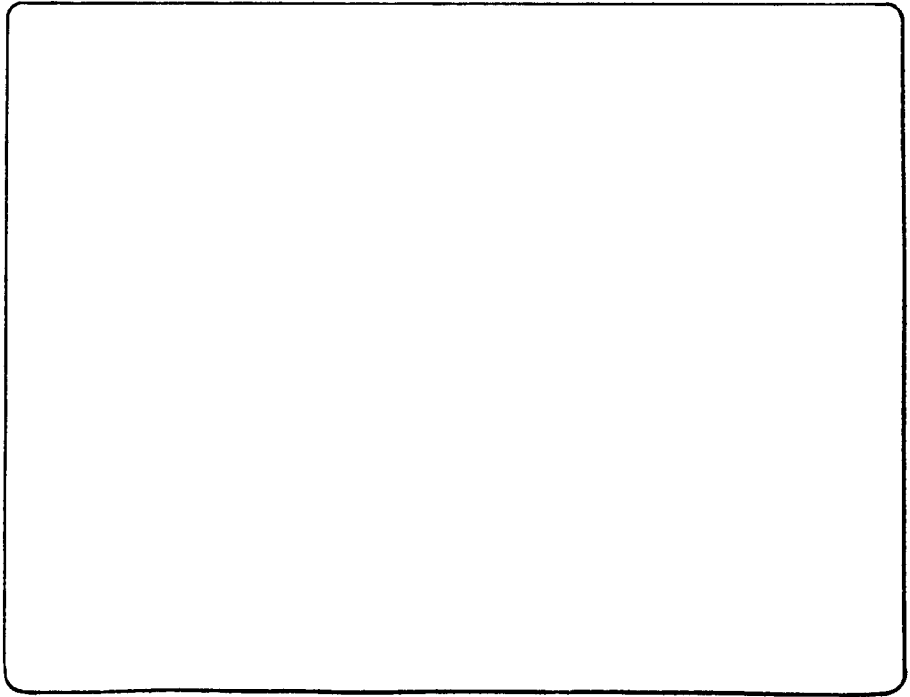
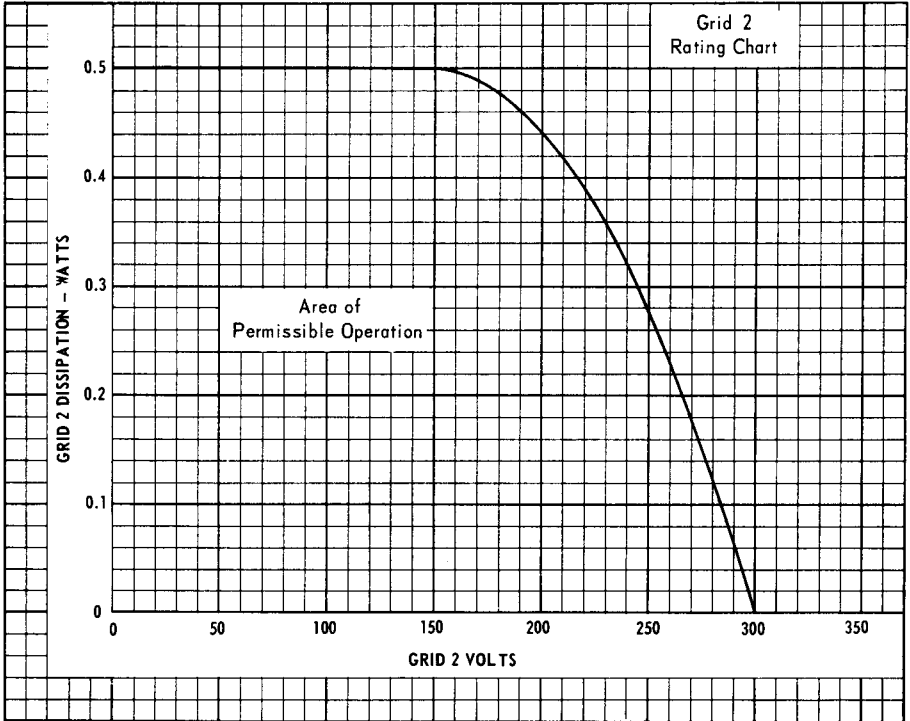
DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

	TRIODE UNIT	PENTODE UNIT	
PLATE VOLTAGE	300	300	VOLTS
GRID 2 SUPPLY VOLTAGE	—	300	VOLTS
GRID 2 VOLTAGE	—	SEE RATING CHART	
GRID 1 VOLTAGE — POSITIVE — BIAS VALUE	0	0	VOLTS
GRID 2 DISSIPATION:			
FOR GRID 2 VOLTAGES UP TO 150 VOLTS	—	0.5	WATT
FOR GRID 2 VOLTAGES BETWEEN 150 AND 300 VOLTS	—	SEE RATING CHART	
PLATE DISSIPATION	2.7	2.8	WATTS
GRID 1 CIRCUIT RESISTANCE:			
FOR FIXED — BIAS OPERATION	0.1	0.1	MEGOHM
FOR CATHODE — BIAS OPERATION	0.5	0.5	MEGOHM

TYPICAL OPERATING CHARACTERISTICS

CLASS A₁ AMPLIFIER

	TRIODE UNIT	PENTODE UNIT	
PLATE SUPPLY VOLTAGE	150	250	VOLTS
GRID 2 SUPPLY VOLTAGE	—	110	VOLTS
CATHODE RESISTOR	56	120	OHMS
PLATE CURRENT	18	10	mA
GRID 2 CURRENT	—	3.5	mA
TRANSCONDUCTANCE	8,500	4,800	μMHOS
AMPLIFICATION FACTOR	40	—	
PLATE RESISTANCE — APPROX.	0.005	0.4	MEGOHM
GRID 1 VOLTAGE (APPROX.) FOR $i_b = 10\mu A$	—12	—12	VOLTS



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