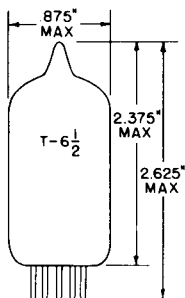


TUNG-SOL

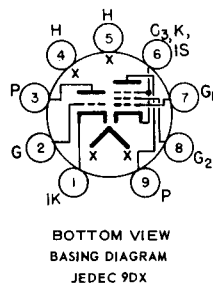
TRIODE PENTODE
MINIATURE TYPE

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

COATED UNIPOTENTIAL CATHODE

FOR COMBINED VIDEO
AMPLIFIER AND GENERAL
PURPOSE T.V. APPLICATIONS

ANY MOUNTING POSITION



THE 6JV8 IS A TRIODE PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. THE TRIODE SECTION IS DESIGNED FOR USE IN SOUND IF, KEYED A.G.C., SYNC-SEPARATION, SYNC-AMPLIFICATION OR NOISE SUPPRESSION CIRCUITS; THE PENTODE SECTION IS DESIGNED FOR USE AS A VIDEO AMPLIFIER. THE HEATER MAY BE OPERATED FROM A TRANSFORMER OR IN A SERIES STRING.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

TRIODE:

GRID TO PLATE: T _g TO T _p	2.2	pf
INPUT: T _g TO (h+T _k +P _k , P _{g3} , i.s.)	3.0	pf
OUTPUT: T _p TO (h+T _k +P _k , P _{g3} , i.s.)	2.0	pf

PENTODE:

GRID 1 TO PLATE: P _{g1} TO P _p (MAX)	0.08	pf
INPUT: P _{g1} TO (h+P _{g2} +P _k , P _{g3} , i.s.)	8.0	pf
OUTPUT: P _p TO (h+P _{g2} +P _k , P _{g3} , i.s.)	3.2	pf

COUPLING:

PENTODE GRID 1 TO TRIODE PLATE: P _{g1} TO T _p (MAX.)	0.012	pf
PENTODE PLATE TO TRIODE PLATE: P _p TO T _p (MAX.)	0.24	pf

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	600	MA.
HEATER WARM-UP TIME		11	SECONDS
LIMITS OF APPLIED VOLTAGE		6.3±0.6	VOLTS
LIMITS OF SUPPLIED CURRENT		600±40	MA.
MAXIMUM HEATER-CATHODE VOLTAGE - BOTH SECTIONS			
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 RATINGS

DESIGN MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

	TRIODE	PENTODE	
PLATE VOLTAGE	330	330	VOLTS
PLATE DISSIPATION	1.1	4.0	WATTS
GRID 2 VOLTAGE	----	330	VOLTS
GRID 2 DISSIPATION	----	1.7	WATTS
NEGATIVE GRID 1 VOLTAGE	50	50	VOLTS
POSITIVE GRID 1 VOLTAGE	0	0	VOLTS
GRID 1 CIRCUIT RESISTANCE:			
FOR CATHODE-BIAS OPERATION	1.0	1.0	MEGOHMS
FOR FIXED BIAS OPERATION	0.5	0.25	MEGOHM

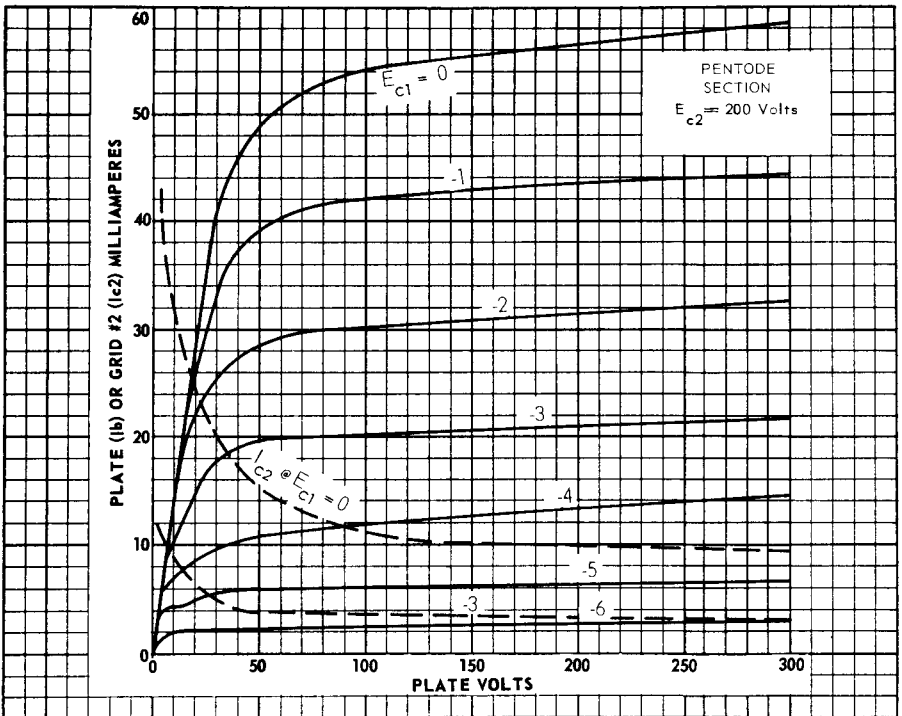
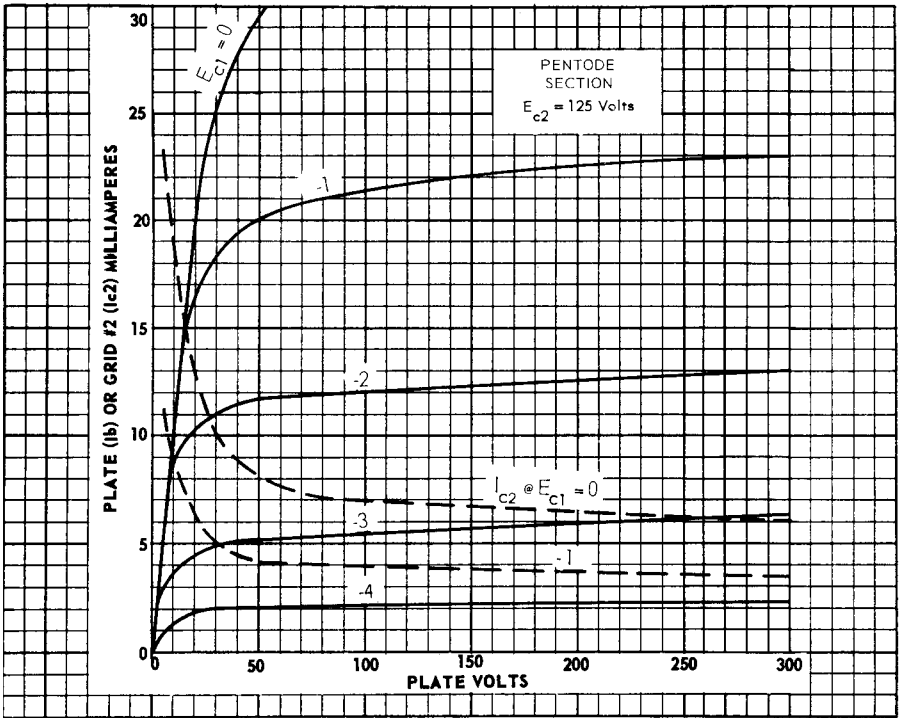
AVERAGE CHARACTERISTICS

	TRIODE	PENTODE		
PLATE VOLTAGE	200	125	200	VOLTS
GRID 2 VOLTAGE	----	125	200	VOLTS
GRID 1 VOLTAGE	-2.0	-1.0	-2.9	VOLTS
PLATE CURRENT	4	22	22	MA.
GRID 2 CURRENT	----	4	4	MA.
TRANSCONDUCTANCE	4,000	11,500	10,700	μMHOS
PLATE RESISTANCE - APPROX.	17.5	100	150	KOHMS
AMPLIFICATION FACTOR	70	----	----	
GRID 1 VOLTAGE FOR $I_b=20\mu A$ (APPROX.)	-5	-5.5	-9	VOLTS

KNEE CHARACTERISTICS
E_{c1} = 0 INSTANTANEOUSLY

PLATE VOLTAGE	----	40	60	VOLTS
GRID 2 VOLTAGE	----	125	200	VOLTS
PLATE CURRENT	----	28	51	MA.
GRID 2 CURRENT	----	9	14	MA.

CONTINUED ON FOLLOWING PAGE



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6JV8

