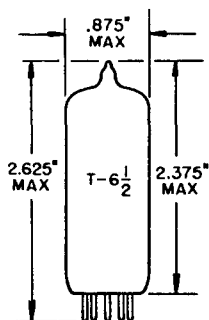


TUNG-SOL

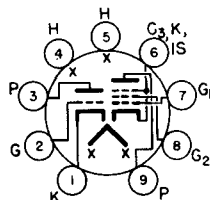
TRIODE PENTODE
MINIATURE TYPE

GLASS BULB
MINIATURE BULB
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



BOTTOM VIEW
BASING DIAGRAM
JEDEC 9DX

THE 8JV8 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	8.5 VOLTS	450	MA.
HEATER WARM-UP TIME		11	SECONDS
LIMITS OF SUPPLIED CURRENT		450 ± 30	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
GRID 2 VOLTAGE	----	125	200
GRID 1 VOLTAGE	-2.0	-1.0	-2.9
PLATE CURRENT	4	22	22
GRID 2 CURRENT	----	4	4
TRANSCONDUCTANCE	4,000	11,500	10,700
PLATE RESISTANCE - APPROX.	17.5	100	150
AMPLIFICATION FACTOR	70	----	----
GRID 1 VOLTAGE FOR $I_b = 20\mu A$ (APPROX.)	-5	-5.5	-9

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

