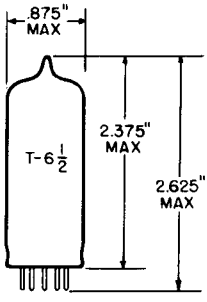
TUNG-SOL

SHEET-BEAM TUBE

MINIATURE TYPE



GLASS BULB

SMALL BUTTON
9 PIN BASE E9-1

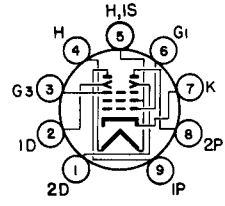
OUTLINE DRAWING
JEDEC 6-3

COATED UNIPOTENTIAL CATHODE

FOR

COLOR TELEVISION APPLICATIONS

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM

JEDEC 90P

PIN 5 SHOULD BE CONNECTED DIRECTLY TO GROUND.

THE 6JH8 IS A DOUBLE-PLATE SHEET-BEAM TUBE IN THE 9 PIN MINIATURE CONSTRUCTION. IT INCORPORATES A PAIR OF BALANCED DEFLECTORS TO DIRECT THE ELECTRON BEAM TO EITHER OF THE TWO PLATES AND A CONTROL GRID TO VARY THE INTENSITY OF THE BEAM. THE RESULTING UNIQUE CHARACTERISTICS OF THIS TUBE MAKE IT ESPECIALLY SUITED FOR SERVICE AS A SYNCHRONOUS DETECTOR IN COLOR TELEVISION RECEIVERS. THE 6JH8 IS ALSO SUITABLE FOR SERVICE IN THE BURST GATE CIRCUIT OF COLOR TV RECEIVERS AND A VARIETY OF OTHER SWITCHING AND GATING APPLICATIONS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITHOUT EXTERNAL SHIELD

DEFLECTOR #1 TO ALL	4.8	pf
DEFLECTOR #2 TO ALL	4.8	pf
GRID #1 TO ALL EXCEPT PLATES	7.5	pf
PLATE #1 TO ALL	5.0	pf
PLATE #2 TO ALL	5.0	pf
GRID #1 TO DEFLECTOR #1 (MAX.)	0.04	pf
GRID #1 TO DEFLECTOR #2 (MAX.)	0.07	pf
PLATE #1 TO PLATE #2	0.4	pf
DEFLECTOR #1 TO DEFLECTOR #2	0.38	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RE-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	300	MA.
HEATER SUPPLY LIMITS:			
VOLTAGE OPERATION		6.3±0.6	VOLTS

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MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE, EACH PLATE	330	VOLTS
ACCELERATOR VOLTAGE	330	VOLTS
PEAK POSITIVE DEFLECTOR VOLTAGE	165	VOLTS
PEAK NEGATIVE DEFLECTOR VOLTAGE	165	VOLTS
POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
PLATE DISSIPATION, EACH PLATE	3.0	WATTS
ACCELERATOR DISSIPATION	1.0	WATTS
DC CATHODE CURRENT	33	MA.
GRID #1 CIRCUIT RESISTANCE		
WITH FIXED BIAS	0.1	MEGOHMS
WITH CATHODE BIAS	0.25	MEGOHMS

TYPICAL OPERATING CHARACTERISTICS

AVERAGE CHARACTERISTICS WITH DEFLECTORS GROUNDED

PLATE #1 VOLTAGE	250	VOLTS
PLATE #2 CONNECTED TO PLATE #1		
ACCELERATOR VOLTAGE	250	VOLTS
DEFLECTOR #1 VOLTAGE	0	VOLTS
DEFLECTOR #2 VOLTAGE	0	VOLTS
CATHODE-BIAS RESISTOR	220	OHMS
TOTAL PLATE CURRENT	14	MA.
ACCELERATOR CURRENT	1.5	MA.
GRID #1 TRANSCONDUCTANCE	4400	μMHOS
GRID #1 VOLTAGE, APPROXIMATE		
Ib (TOTAL) = 10 μAMPS.	-13	VOLTS

AVERAGE DEFLECTOR CHARACTERISTICS

PLATE #1 VOLTAGE	250	VOLTS
PLATE #2 VOLTAGE	250	VOLTS
ACCELERATOR VOLTAGE	250	VOLTS
CATHODE-BIAS RESISTOR	220	OHMS
DEFLECTOR SWITCHING VOLTAGE, MAX.[A]	20	VOLTS
DEFLECTOR BIAS VOLTAGE FOR MINIMUM DEFLECTOR SWITCHING VOLTAGE[A]	-14	VOLTS
VOLTAGE DIFFERENCE BETWEEN DEFLECTORS FOR Ib = Ib2, APPROX.	0	VOLTS
PLATE #1 CURRENT, MAXIMUM Ed1 = -15 VOLTS, Ed2 = +15 VOLTS	0.7	MA.
PLATE #2 CURRENT, MAXIMUM Ed1 = +15VOLTS, Ed2 = -15 VOLTS	0.7	MA.
DEFLECTOR-#1 CURRENT, MAXIMUM Ed1 = +25VOLTS, Ed2 = -25 VOLTS	0.1	MA.
DEFLECTOR #2 CURRENT, MAXIMUM Ed1 = -25 VOLTS, Ed2 = +25 VOLTS	0.1	MA.

[A]DEFLECTOR SWITCHING VOLTAGE IS DEFINED AS THE TOTAL VOLTAGE CHANGE ON EITHER DEFLECTOR WITH AN EQUAL AND OPPOSITE CHANGE ON THE OTHER DEFLECTOR REQUIRED TO SWITCH THE PLATE CURRENT FROM ONE PLATE TO THE OTHER.

NOTE: THE 6JH8 SHOULD BE SO LOCATED IN THE EQUIPMENT THAT IT IS NOT SUBJECTED TO STRAY MAGNETIC FIELDS.