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: Tg TO Tp
INPUT Tg TO (h+T+Pk, Pg3, i.s.)
OUTPUT: Tp TO (h+T+Pk, Pg3, i.s.)

2.2 pf
3.0 pf
2.0 pf

PENTODE:
GRID 1 TO PLATE: Pg1 to Tp (MAX)
INPUT: Pg1 TO (h+Pg2+Pk, Pg3, i.s.)
OUTPUT: Pg TO (h+Pg2+Pk, Pg3, i.s.)

0.08 pf
8.0 pf
3.2 pf

COUPLING:
PENTODE GRID 1 TO TRIODE PLATE:
Pg1 TO Tp (MAX)
PENTODE PLATE TO TRIODE PLATE:
Pg TO Tp (MAX)

0.012 pf
0.24 pf

CONTINUED ON FOLLOWING PAGE
HEATER CHARACTERISTICS AND RATINGS

CONTINUED FROM PRECEDING PAGE

AVERAGE CHARACTERISTICS

6.3 VOLTS

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

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 MEGOHMS

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     4     22 MA.
GRID 2 CURRENT  ----  ----  ---- MA.
TRANSCONDUCTANCE  4,000 11,500 10,700 MACHOS
PLATE RESISTANCE - APPROX.  17.5 100 150 KOHMS
AMPLIFICATION FACTOR  70   ----   ----
GRID 1 VOLTAGE FOR IB=20mA (APPROX.)  -5   -5.5   -.9 VOLTS

KNEE CHARACTERISTICS

EC1 = 0 INSTANTANEOUSLY

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

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