TUNG-SOL

PENTODE

COATED FILAMENT

FILAMENT

1.2 VOLTS  130 MA.

DC

ANY MOUNTING POSITION

GLASS BULB

THE IAB5 IS A FILAMENTARY TYPE PENTODE VOLTAGE AMPLIFIER USING THE LOCK-IN CONSTRUCTION. IT IS DESIGNED FOR USE AS A MIXER OR RF AMPLIFIER IN CIRCUITS REQUIRING A TUBE WITH HIGHER TRANSCONDUCTANCE THAN THE 1LN5.

DIRECT INTERELECTRODE CAPACITANCES

WITH SMI SHIELD #308 CONNECTED TO NEGATIVE FILAMENT

GRID TO PLATE: (G4 TO P) MAX. 0.25 μf
INPUT: G4 TO (F+G2+G3) 2.8 μf
OUTPUT: P TO (F+G2+G3) 4.2 μf

RATINGS

INTERPRETED ACCORDING TO IEC STANDARD MB-210

FILAMENT VOLTAGE 1.2 VOLTS
FILAMENT CURRENT 150 MA.
MAXIMUM PLATE VOLTAGE 150 VOLTS
MAXIMUM GRID #2 VOLTAGE 150 VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE 0 VOLTS
MAXIMUM PLATE DISSIPATION 1 WATT
MAXIMUM GRID #2 DISSIPATION 0.3 WATT

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER

FILAMENT VOLTAGE 1.2 1.2 VOLTS
FILAMENT CURRENT 150 150 MA.
PLATE VOLTAGE 90 150 VOLTS
GRID #2 VOLTAGE 90 150 VOLTS
GRID #1 VOLTAGE 0 -1.5 VOLTS
GRID #1 RESISTOR (SELF BIAS) — 170 OHMS
PLATE RESISTANCE (APPROX.) 0.275 0.125 MEGOHM
TRANSCONDUCTANCE 1 100 1 350 ΜΜΗMOS
PLATE CURRENT 3.5 6.8 MA.
GRID #2 CURRENT 0.8 2 ΜA.
GRID #1 VOLTAGE (APPROX.) FOR Gm = 40 ΜΜΗMOS -14 -23 VOLTS
GRID #1 VOLTAGE (APPROX.) FOR Gm = 725 ΜΜΗMOS -3 -6 VOLTS

GRID #1 RESISTOR SHOULD BE 1 MEGOHM UNDER CONDITIONS OF ZERO-BIAS.
PENTODE CONNECTION

$E_f = 1.2$ Volts
$E_{C2} = 90$ Volts

IAB5

GRID #1 MILLIAMPERES

PLATE MILLIAMPERES

$E_{C4} = +2$

$E_{C4} = -2$

$E_{C4} = -4$

$E_{C4} = -6$

IAB5

PENTODE CONNECTION

$E_f = 1.2$ Volts
$E_{C2} = 90$ Volts

GRID #2 MILLIAMPERES

PLATE MILLIAMPERES

$E_{C4} = +2$

$E_{C4} = -2$

$E_{C4} = -4$

$E_{C4} = -6$