

Table 4 Group A Inspection

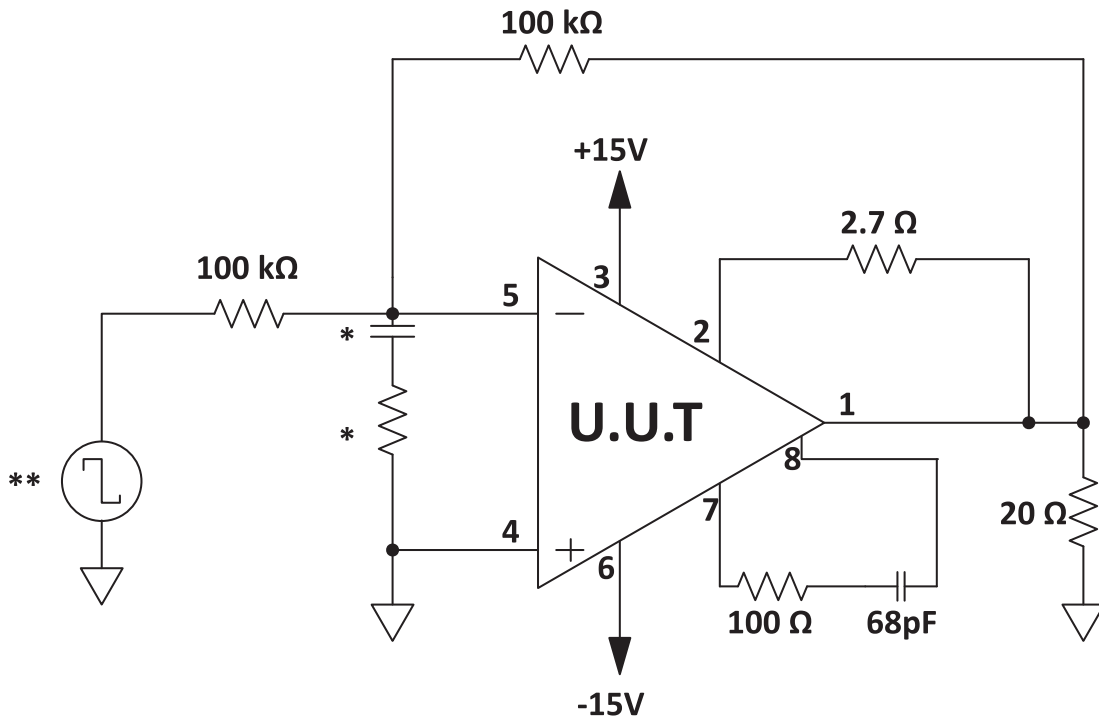
| SG | Parameter *** | Symbol | Temp. | Power | Test Conditions | Min | Max | Units |
|----|-------------------------------|----------|-------|-------|---|-----|------|------------|
| 1 | Quiescent Current | I_Q | 25°C | ±150V | $V_{IN} = 0, A_V = 100$ | | 25 | mA |
| 1 | Input Offset Voltage | V_{OS} | 25°C | ±15V | $V_{IN} = 0, A_V = 100$ | | ±4 | mV |
| 1 | Input Offset Voltage | V_{OS} | 25°C | ±150V | $V_{IN} = 0, A_V = 100$ | | ±2 | mV |
| 1 | Input Bias Current, +IN | $+I_B$ | 25°C | ±150V | $V_{IN} = 0$ | | ±50 | pA |
| 1 | Input Bias Current, -IN | $-I_B$ | 25°C | ±150V | $V_{IN} = 0$ | | ±50 | pA |
| 1 | Input Offset Current | I_{OS} | 25°C | ±150V | $V_{IN} = 0$ | | ±100 | pA |
| 3 | Quiescent Current | I_Q | -55°C | ±150V | $V_{IN} = 0, A_V = 100$ | | 28 | mA |
| 3 | Input Offset Voltage | V_{OS} | -55°C | ±15V | $V_{IN} = 0, A_V = 100$ | | ±6.4 | mV |
| 3 | Input Offset Voltage | V_{OS} | -55°C | ±150V | $V_{IN} = 0, A_V = 100$ | | ±4.4 | mV |
| 3 | Input Bias Current, +IN | $+I_B$ | -55°C | ±150V | $V_{IN} = 0$ | | ±50 | pA |
| 3 | Input Bias Current, -IN | $-I_B$ | -55°C | ±150V | $V_{IN} = 0$ | | ±50 | pA |
| 3 | Input Offset Current | I_{OS} | -55°C | ±150V | $V_{IN} = 0$ | | ±50 | pA |
| 2 | Quiescent Current | I_Q | 125°C | ±150V | $V_{IN} = 0, A_V = 100$ | | 28 | mA |
| 2 | Input Offset Voltage | V_{OS} | 125°C | ±15V | $V_{IN} = 0, A_V = 100$ | | ±7 | mV |
| 2 | Input Offset Voltage | V_{OS} | 125°C | ±150V | $V_{IN} = 0, A_V = 100$ | | ±5 | mV |
| 2 | Input Bias Current, +IN | $+I_B$ | 125°C | ±150V | $V_{IN} = 0$ | | ±10 | nA |
| 2 | Input Bias Current, -IN | $-I_B$ | 125°C | ±150V | $V_{IN} = 0$ | | ±10 | nA |
| 2 | Input Offset Current | I_{OS} | 125°C | ±150V | $V_{IN} = 0$ | | ±10 | nA |
| 4 | Output Voltage, $I_O = 200mA$ | V_O | 25°C | ±50V | $R_L = 200 \Omega$ | 40 | | V |
| 4 | Output Voltage, $I_O = 70mA$ | V_O | 25°C | ±150V | $R_L = 2 k\Omega$ | 141 | | V |
| 4 | Output Voltage, $I_O = 20mA$ | V_O | 25°C | ±48V | $R_L = 2 k\Omega$ | 40 | | V |
| 4 | Current Limits | I_{CL} | 25°C | ±50V | $R_{CL} = 10 \Omega, R_L = 200 \Omega$ | 60 | 112 | A |
| 4 | Stability/Noise | E_N | 25°C | ±150V | $C_C = 68pF, R_C = 100 \Omega, A_V = +1, C_L = 470pF$ | | 1 | mV |
| 4 | Slew Rate | SR | 25°C | ±150V | $R_L = 2 k\Omega, A_V = 100, C_C = OPEN$ | 400 | | V/ μs |
| 4 | Open Loop Gain | A_{OL} | 25°C | ±150V | $R_L = 2 k\Omega, F = 15 Hz, C_C = OPEN$ | 96 | | dB |
| 4 | Common Mode Rejection | CMR | 25°C | ±150V | $F = DC, V_{CM} = \pm 90V$ | 90 | | dB |

PA85M

| SG | Parameter | Symbol | Temp. | Power | Test Conditions | Min | Max | Units |
|----|--------------------------------------|----------|---------------------|-------------------|---|-----|-----|------------------|
| 6 | Output Voltage, $I_O = 200\text{mA}$ | V_O | -55°C | $\pm 50\text{V}$ | $R_L = 200\ \Omega$ | 40 | | V |
| 6 | Output Voltage, $I_O = 70\text{mA}$ | V_O | -55°C | $\pm 150\text{V}$ | $R_L = 2\ \text{k}\Omega$ | 141 | | V |
| 6 | Output Voltage, $I_O = 20\text{mA}$ | V_O | -55°C | $\pm 48\text{V}$ | $R_L = 2\ \text{k}\Omega$ | 40 | | V |
| 6 | Stability/Noise | E_N | -55°C | $\pm 150\text{V}$ | $C_C = 68\text{pF}$, $R_C = 100\ \Omega$, $A_V = +1$, $C_L = 470\text{pF}$ | | 1 | mV |
| 6 | Slew Rate | SR | -55°C | $\pm 150\text{V}$ | $R_L = 2\ \text{k}\Omega$, $A_V = 100$, $C_C = \text{OPEN}$ | 400 | | V/ μs |
| 6 | Open Loop Gain | A_{OL} | -55°C | $\pm 150\text{V}$ | $R_L = 2\ \text{k}\Omega$, $F = 15\ \text{Hz}$, $C_C = \text{OPEN}$ | 96 | | dB |
| 6 | Common Mode Rejection | CMR | -55°C | $\pm 150\text{V}$ | $F = \text{DC}$, $V_{CM} = \pm 90\text{V}$ | 90 | | dB |
| 5 | Output Voltage, $I_O = 150\text{mA}$ | V_O | 125°C | $\pm 40\text{V}$ | $R_L = 200\ \Omega$ | 30 | | V |
| 5 | Output Voltage, $I_O = 70\text{mA}$ | V_O | 125°C | $\pm 150\text{V}$ | $R_L = 2\ \text{k}\Omega$ | 141 | | V |
| 5 | Output Voltage, $I_O = 20\text{mA}$ | V_O | 125°C | $\pm 48\text{V}$ | $R_L = 2\ \text{k}\Omega$ | 40 | | V |
| 5 | Stability/Noise | E_N | 125°C | $\pm 150\text{V}$ | $C_C = 68\text{pF}$, $R_C = 100\ \Omega$, $A_V = +1$, $C_L = 470\text{pF}$ | | 1 | mV |
| 5 | Slew Rate | SR | 125°C | $\pm 150\text{V}$ | $R_L = 2\ \text{k}\Omega$, $A_V = 100$, $C_C = \text{OPEN}$ | 400 | | V/ μs |
| 5 | Open Loop Gain | A_{OL} | 125°C | $\pm 150\text{V}$ | $R_L = 2\ \text{k}\Omega$, $F = 15\ \text{Hz}$, $C_C = \text{OPEN}$ | 96 | | dB |
| 5 | Common Mode Rejection | CMR | 125°C | $\pm 150\text{V}$ | $F = \text{DC}$, $V_{CM} = \pm 90\text{V}$ | 90 | | dB |

BURN IN CIRCUIT

Figure 1: Burn In Circuit



- * These components are used to stabilize device due to poor high frequency characteristics of burn in board.
- ** Input signals are calculated to result in internal power dissipation of approximately 2.1W at case temperature = 125°C.
- *** An additional test is performed manually at $T_C = 25^\circ\text{C}$ which stresses power supply, common mode range and output swing to $\pm 225\text{V}$ (450V total).

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