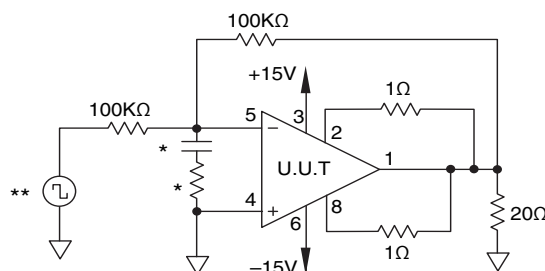


*Table 4 Group A Inspection*

| SG | PARAMETER                    | SYMBOL   | TEMP. | POWER  | TEST CONDITIONS                               | MIN  | MAX | UNITS |
|----|------------------------------|----------|-------|--------|-----------------------------------------------|------|-----|-------|
| 1  | Quiescent Current            | $I_O$    | 25°C  | ±35V   | $V_{IN} = 0, A_V = 100$                       |      | 30  | mA    |
| 1  | Input Offset Voltage         | $V_{OS}$ | 25°C  | ±35V   | $V_{IN} = 0, A_V = 100$                       |      | 2   | mV    |
| 1  | Input Offset Voltage         | $V_{OS}$ | 25°C  | ±12V   | $V_{IN} = 0, A_V = 100$                       |      | 4.3 | mV    |
| 1  | Input Offset Voltage         | $V_{OS}$ | 25°C  | ±50V   | $V_{IN} = 0, A_V = 100$                       |      | 3.5 | mV    |
| 1  | Input Bias Current, +IN      | $+I_B$   | 25°C  | ±35V   | $V_{IN} = 0$                                  |      | 50  | pA    |
| 1  | Input Bias Current, -IN      | $-I_B$   | 25°C  | ±35V   | $V_{IN} = 0$                                  |      | 50  | pA    |
| 1  | Input Offset Current         | $I_{OS}$ | 25°C  | ±35V   | $V_{IN} = 0$                                  |      | 50  | pA    |
| 3  | Quiescent Current            | $I_O$    | -55°C | ±35V   | $V_{IN} = 0, A_V = 100$                       |      | 46  | mA    |
| 3  | Input Offset Voltage         | $V_{OS}$ | -55°C | ±35V   | $V_{IN} = 0, A_V = 100$                       |      | 4.4 | mV    |
| 3  | Input Offset Voltage         | $V_{OS}$ | -55°C | ±12V   | $V_{IN} = 0, A_V = 100$                       |      | 6.7 | mV    |
| 3  | Input Offset Voltage         | $V_{OS}$ | -55°C | ±50V   | $V_{IN} = 0, A_V = 100$                       |      | 5.9 | mV    |
| 3  | Input Bias Current, +IN      | $+I_B$   | -55°C | ±35V   | $V_{IN} = 0$                                  |      | 50  | pA    |
| 3  | Input Bias Current, -IN      | $-I_B$   | -55°C | ±35V   | $V_{IN} = 0$                                  |      | 50  | pA    |
| 3  | Input Offset Current         | $I_{OS}$ | -55°C | ±35V   | $V_{IN} = 0$                                  |      | 50  | pA    |
| 2  | Quiescent Current            | $I_O$    | 125°C | ±35V   | $V_{IN} = 0, A_V = 100$                       |      | 30  | mA    |
| 2  | Input Offset Voltage         | $V_{OS}$ | 125°C | ±35V   | $V_{IN} = 0, A_V = 100$                       |      | 5   | mV    |
| 2  | Input Offset Voltage         | $V_{OS}$ | 125°C | ±12V   | $V_{IN} = 0, A_V = 100$                       |      | 7.3 | mV    |
| 2  | Input Offset Voltage         | $V_{OS}$ | 125°C | ±50V   | $V_{IN} = 0, A_V = 100$                       |      | 6.5 | mV    |
| 2  | Input Bias Current, +IN      | $+I_B$   | 125°C | ±35V   | $V_{IN} = 0$                                  |      | 10  | nA    |
| 2  | Input Bias Current, -IN      | $-I_B$   | 125°C | ±35V   | $V_{IN} = 0$                                  |      | 10  | nA    |
| 2  | Input Offset Current         | $I_{OS}$ | 125°C | ±35V   | $V_{IN} = 0$                                  |      | 10  | nA    |
| 4  | Output Voltage, $I_O = 5A$   | $V_O$    | 25°C  | ±15.3V | $R_L = 2.07\Omega$                            | 10.3 |     | V     |
| 4  | Output Voltage, $I_O = 90mA$ | $V_O$    | 25°C  | ±50V   | $R_L = 500\Omega$                             | 45   |     | V     |
| 4  | Output Voltage, $I_O = 2A$   | $V_O$    | 25°C  | ±29V   | $R_L = 12\Omega$                              | 24   |     | V     |
| 4  | Current Limits               | $I_{CL}$ | 25°C  | ±19V   | $R_L = 12\Omega, R_{CL} = 1\Omega$            | .54  | .86 | A     |
| 4  | Stability/Noise              | $E_N$    | 25°C  | ±35V   | $R_L = 100\Omega, A_V = 1, C_L = 1nF$         |      | 1   | mV    |
| 4  | Slew Rate                    | SR       | 25°C  | ±35V   | $R_L = 500\Omega$                             | 2.5  | 10  | V/μs  |
| 4  | Open Loop Gain               | $A_{OL}$ | 25°C  | ±35V   | $R_L = 500\Omega, F = 15Hz$                   | 89   |     | dB    |
| 4  | Common Mode Rejection        | CMR      | 25°C  | ±34.5V | $R_L = 500\Omega, F = DC, V_{CM} = \pm 24.5V$ | 80   |     | dB    |
| 6  | Output Voltage, $I_O = 5A$   | $V_O$    | -55°C | ±15.3V | $R_L = 2.07\Omega$                            | 10.3 |     | V     |
| 6  | Output Voltage, $I_O = 90mA$ | $V_O$    | -55°C | ±50V   | $R_L = 500\Omega$                             | 45   |     | V     |
| 6  | Output Voltage, $I_O = 2A$   | $V_O$    | -55°C | ±29V   | $R_L = 12\Omega$                              | 24   |     | V     |
| 6  | Stability/Noise              | EN       | -55°C | ±35V   | $R_L = 100\Omega, A_V = 1, C_L = 1nF$         |      | 1   | mV    |
| 6  | Slew Rate                    | SR       | -55°C | ±35V   | $R_L = 500\Omega$                             | 2.5  | 10  | V/μs  |
| 6  | Open Loop Gain               | $A_{OL}$ | -55°C | ±35V   | $R_L = 500\Omega, F = 15Hz$                   | 89   |     | dB    |
| 6  | Common Mode Rejection        | CMR      | -55°C | ±34.5V | $R_L = 500\Omega, F = DC, V_{CM} = \pm 24.5V$ | 80   |     | dB    |
| 5  | Output Voltage, $I_O = 3A$   | $V_O$    | 125°C | ±11.3V | $R_L = 2.07\Omega$                            | 6.3  |     | V     |
| 5  | Output Voltage, $I_O = 90mA$ | $V_O$    | 125°C | ±50V   | $R_L = 500\Omega$                             | 45   |     | V     |
| 5  | Output Voltage, $I_O = 2A$   | $V_O$    | 125°C | ±29V   | $R_L = 12\Omega$                              | 24   |     | V     |
| 5  | Stability/Noise              | $E_N$    | 125°C | ±35V   | $R_L = 100\Omega, A_V = 1, C_L = 1nF$         |      | 1   | mV    |
| 5  | Slew Rate                    | SR       | 125°C | ±35V   | $R_L = 500\Omega$                             | 1.25 | 10  | V/μs  |
| 5  | Open Loop Gain               | $A_{OL}$ | 125°C | ±35V   | $R_L = 500\Omega, F = 15Hz$                   | 89   |     | dB    |
| 5  | Common Mode Rejection        | CMR      | 125°C | ±34.5V | $R_L = 500\Omega, F = DC, V_{CM} = \pm 24.5V$ | 80   |     | dB    |

## 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.

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## NEED TECHNICAL HELP? CONTACT APEX SUPPORT!

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