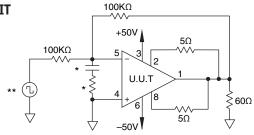




## Table 4 Group A Inspection

SG	PARAMETER	SYMBOL	TEMP.	POWER	TEST CONDITIONS	MIN	MAX	UNITS
1 1 1 1 1 1	Quiescent Current Input Offset Voltage Input Offset Voltage Input Offset Voltage Input Bias Current, +IN Input Bias Current, -IN Input Offset Current		25°C 25°C 25°C 25°C 25°C 25°C 25°C	±100V ±100V ±15V ±150V ±100V ±100V ±100V	$\begin{aligned} &V_{\text{IN}} = 0,  A_{\text{V}} = 100 \\ &V_{\text{IN}} = 0 \\ &V_{\text{IN}} = 0 \\ &V_{\text{IN}} = 0 \end{aligned}$		8.5 2 3.7 3 50 50 50	mA mV mV pA pA pA
3 3 3 3 3 3	Quiescent Current Input Offset Voltage Input Offset Voltage Input Offset Voltage Input Bias Current, +IN Input BiasCurrent, -IN Input Offset Current	I <sub>Q</sub>	-55°C -55°C -55°C -55°C -55°C -55°C -55°C	±100V ±100V ±15V ±150V ±100V ±100V	$\begin{aligned} & V_{IN} = 0,  A_V = 100 \\ & V_{IN} = 0 \\ & V_{IN} = 0 \end{aligned}$		9.5 4.4 6.1 5.4 50 50 50	mA mV mV pA pA pA
2 2 2 2 2 2 2 2	Quiescent Current Input Offset Voltage Input Offset Voltage Input Offset Voltage Input Bias Current, +IN Input Bias Current, -IN Input Offset Current	I <sub>Q</sub>	125°C 125°C 125°C 125°C 125°C 125°C 125°C	±100V ±100V ±15V ±150V ±100V ±100V ±100V	$\begin{aligned} &V_{\text{IN}} = 0,  A_{\text{V}} = 100 \\ &V_{\text{IN}} = 0,  V_{\text{IN}} = 0 \\ &V_{\text{IN}} = 0 \\ &V_{\text{IN}} = 0 \end{aligned}$		12 5 6.7 6 10 10	mA mV mV nA nA
4 4 4 4 4 4	Output Voltage, $I_{\rm O}=150{\rm mA}$ Output Voltage, $I_{\rm O}=29{\rm mA}$ Output Voltage, $I_{\rm O}=80{\rm mA}$ Current Limits Stability/Noise Slew Rate Open Loop Gain Common Mode Rejection	V°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	25°C 25°C 25°C 25°C 25°C 25°C 25°C 25°C	±31V ±150V ± 90V ±30V ±100V ±100V ±100V ±32.5V	$\begin{aligned} R_L &= 100\Omega \\ R_L &= 5K \\ R_L &= 1K \\ R_L &= 100\Omega \\ R_L &= 5K, A_v = 1, C_L = 1nF \\ R_L &= 5K \\ R_L &= 5K, F = 10Hz \\ R_L &= 5K, F = DC, V_{CM} = \pm 22.5V \end{aligned}$	15 145 80 75 20 96 90	125 1 100	V V V mA mV V/µs dB dB
6 6 6 6 6 6	Output Voltage, $I_{\rm O}=100{\rm mA}$ Output Voltage, $I_{\rm O}=29{\rm mA}$ Output Voltage, $I_{\rm O}=70{\rm mA}$ Stability/Noise Slew Rate Open Loop Gain Common Mode Rejection	V <sub>o</sub> V <sub>o</sub> E <sub>n</sub> SR A <sub>oL</sub> CMR	-55°C -55°C -55°C -55°C -55°C -55°C -55°C	±31V ±150V ±90V ±100V ±100V ±100V ±32.5V	$\begin{aligned} R_L &= 100\Omega \\ R_L &= 5K \\ R_L &= 1K \\ R_L &= 5K, A_V = 1, C_L = 1nF \\ R_L &= 5K \\ R_L &= 5K, F = 10Hz \\ R_L &= 5K, F = DC, V_{CM} = \pm 22.5V \end{aligned}$	10 145 70 20 96 90	1 100	V V V mV V/µs dB dB
5 5 5 5 5 5 5	Output Voltage, I <sub>o</sub> = 150mA Output Voltage, I <sub>o</sub> = 29mA Output Voltage, I <sub>o</sub> = 80mA Stability/Noise Slew Rate Open Loop Gain Common Mode Rejection	V <sub>o</sub> V <sub>o</sub> E <sub>N</sub> SR A <sub>OL</sub> CMR	125°C 125°C 125°C 125°C 125°C 125°C 125°C	±31V ±150V ±90V ±100V ±100V ±100V ±32.5V	$\begin{aligned} R_{_L} &= 100\Omega \\ R_{_L} &= 5K \\ R_{_L} &= 1K \\ R_{_L} &= 5K, A_{_V} = 1, C_{_L} = 1nF \\ R_{_L} &= 5K \\ R_{_L} &= 5K, F = 10Hz \\ R_{_L} &= 5K, F = DC, V_{_{CM}} = \pm 22.5V \end{aligned}$	15 145 80 20 96 90	1 100	V V V mV V/µs dB 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.







## CONTACTING CIRRUS LOGIC SUPPORT

For all Apex Precision Power product questions and inquiries, call toll free 800-546-2739 in North America. For inquiries via email, please contact apex.support@cirrus.com.

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