# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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### Table 4 Group A Inspection

SG	Parameter	Symbol	Temp.	Power	Test Conditions	Min	Max	Units
1	Quiescent Current	۱ <sub>Q</sub>	25°C	±34V	V <sub>IN</sub> =0, A <sub>V</sub> =100, R <sub>CL</sub> = 0.1 Ω		10	mA
1	Input Offset Voltage	V <sub>OS</sub>	25°C	±34V	V <sub>IN</sub> = 0, A <sub>V</sub> = 100		±10	mV
1	Input Offset Voltage	V <sub>OS</sub>	25°C	±10V	V <sub>IN</sub> = 0, A <sub>V</sub> = 100		±16	mV
1	Input Offset Voltage	V <sub>OS</sub>	25°C	±40V	V <sub>IN</sub> = 0, A <sub>V</sub> = 100		±11.2	mV
1	Input Bias Current, +IN	+I <sub>B</sub>	25°C	±34V	V <sub>IN</sub> = 0		±40	nA
1	Input Bias Current, –IN	$-I_B$	25°C	±34V	V <sub>IN</sub> = 0		±40	nA
1	Input Offset Current	I <sub>OS</sub>	25°C	±34V	V <sub>IN</sub> = 0		±10	nA
3	Quiescent Current	Ι <sub>Q</sub>	–55°C	±34V	V <sub>IN</sub> =0, A <sub>V</sub> =100, R <sub>CL</sub> = 0.1 Ω		10	mA
3	Input Offset Voltage	V <sub>OS</sub>	−55°C	±34V	V <sub>IN</sub> = 0, A <sub>V</sub> = 100		±15.2	mV
3	Input Offset Voltage	V <sub>OS</sub>	−55°C	±10V	V <sub>IN</sub> = 0, A <sub>V</sub> = 100		±21.2	mV
3	Input Offset Voltage	V <sub>OS</sub>	−55°C	±40V	V <sub>IN</sub> = 0, A <sub>V</sub> = 100		±16.4	mV
3	Input Bias Current, +IN	+I <sub>B</sub>	−55°C	±34V	V <sub>IN</sub> = 0		±72	nA
3	Input Bias Current, –IN	$-I_B$	−55°C	±34V	V <sub>IN</sub> = 0		±72	nA
3	Input Offset Current	I <sub>OS</sub>	–55°C	±34V	V <sub>IN</sub> = 0		±26	nA
2	Quiescent Current	۱ <sub>Q</sub>	125°C	±34V	V <sub>IN</sub> =0, A <sub>V</sub> =100, R <sub>CL</sub> = 0.1 Ω		13	mA
2	Input Offset Voltage	V <sub>OS</sub>	125°C	±34V	V <sub>IN</sub> = 0, A <sub>V</sub> = 100		±16.5	mV
2	Input Offset Voltage	V <sub>OS</sub>	125°C	±10V	V <sub>IN</sub> = 0, A <sub>V</sub> = 100		±22.5	mV
2	Input Offset Voltage	V <sub>OS</sub>	125°C	±40V	V <sub>IN</sub> = 0, A <sub>V</sub> = 100		±17.7	mV
2	Input Bias Current, +IN	+I <sub>B</sub>	125°C	±34V	V <sub>IN</sub> = 0		±80	nA
2	Input Bias Current, –IN	$-I_B$	125°C	±34V	V <sub>IN</sub> = 0		±80	nA
2	Input Offset Current	I <sub>OS</sub>	125°C	±34V	V <sub>IN</sub> = 0		±30	nA
4	Output Voltage, I <sub>O</sub> = 10A	V <sub>O</sub>	25°C	±18V	$R_L = 1 \Omega$	10		V
4	Output Voltage, I <sub>O</sub> = 68mA	V <sub>O</sub>	25°C	±40V	R <sub>L</sub> = 500 Ω	34		V
4	Output Voltage, I <sub>O</sub> = 4A	Vo	25°C	±30V	R <sub>L</sub> = 6 Ω	24		V
4	Current Limits	I <sub>CL</sub>	25°C	±16V	$R_L$ = 1Ω, $R_{CL}$ = 0.1 Ω	5	7.9	А
4	Stability/Noise	E <sub>N</sub>	25°C	±34V	R <sub>L</sub> =500 Ω, A <sub>V</sub> =1, C <sub>L</sub> =1.5nF		1	mV
4	Slew Rate	SR	25°C	±34V	R <sub>L</sub> = 500 Ω	1	10	V/µs
4	Open Loop Gain	A <sub>OL</sub>	25°C	±34V	R <sub>L</sub> = 500 Ω, F = 10 Hz	94		dB
4	Common Mode Rejection	CMR	25°C	±15V	$R_L = 500 \Omega$ , F = DC, V <sub>CM</sub> = ±9V	70		dB

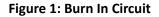
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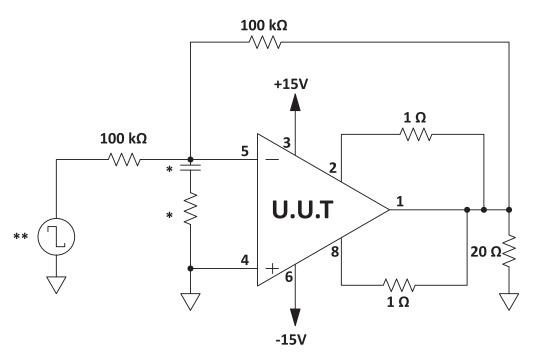


SG	Parameter	Symbol	Temp.	Power	Test Conditions	Min	Max	Units
6	Output Voltage, I <sub>O</sub> = 10A	V <sub>O</sub>	−55°C	±18V	R <sub>L</sub> = 1 Ω	10		V
6	Output Voltage, I <sub>O</sub> = 68mA	Vo	-55°C	±40V	R <sub>L</sub> = 500 Ω	34		V
6	Output Voltage, I <sub>O</sub> = 4A	Vo	−55°C	±30V	$R_L = 6 \Omega$	24		V
6	Stability/Noise	E <sub>N</sub>	–55°C	±34V	R <sub>L</sub> =500 Ω, A <sub>V</sub> =1, C <sub>L</sub> =1.5nF		1	mV
6	Slew Rate	SR	–55°C	±34V	R <sub>L</sub> = 500 Ω	1	10	V/µs
6	Open Loop Gain	A <sub>OL</sub>	–55°C	±34V	R <sub>L</sub> = 500 Ω, F = 10Hz	94		dB
6	Common Mode Rejection	CMR	–55°C	±15V	$R_L = 500 $ Ω, $F = DC$ , $V_{CM} = \pm 9V$	70		dB
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5	Output Voltage, I <sub>O</sub> = 8A	Vo	125°C	±16V	$R_L = 1 \Omega$	8		V
5	Output Voltage, I <sub>O</sub> = 68mA	Vo	125°C	±40V	R <sub>L</sub> = 500 Ω	34		V
5	Output Voltage, I <sub>O</sub> = 4A	Vo	125°C	±30V	$R_L = 6 \Omega$	24		V
5	Stability/Noise	E <sub>N</sub>	125°C	±34V	R <sub>L</sub> =500 Ω, A <sub>V</sub> =1, C <sub>L</sub> =1.5nF		1	mV
5	Slew Rate	SR	125°C	±34V	R <sub>L</sub> = 500 Ω	1	10	V/µs
5	Open Loop Gain	A <sub>OL</sub>	125°C	±34V	R <sub>L</sub> = 500 Ω, F = 10 Hz	94		dB
5	Common Mode Rejection	CMR	125°C	±15V	$R_L$ = 500 Ω, F = DC, V <sub>CM</sub> = ±9V	70		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.

#### NEED TECHNICAL HELP? CONTACT APEX SUPPORT!

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