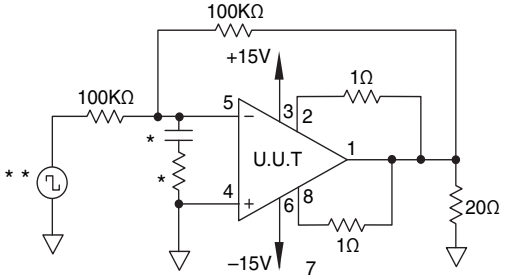
Table 4 Group A Inspection

SG	PARAMETER	SYMBOL	TEMP.	POWER	TEST CONDITIONS	MIN	MAX	UNITS
1	Quiescent current	I_Q	25°C	±34V	V_{IN} = 0, A_V = 100, R_{CL} = .1Ω		10	mA
1	Input offset voltage	V_{OS}	25°C	±34V	V_{IN} = 0, A_V = 100		±10	mV
1	Input offset voltage	V_{OS}	25°C	±10V	V_{IN} = 0, A_V = 100		±16	mV
1	Input offset voltage	V_{OS}	25°C	±40V	V_{IN} = 0, A_V = 100		±11.2	mV
1	Input bias current, +IN	$+I_B$	25°C	±34V	V_{IN} = 0		±40	nA
1	Input bias current, – IN	$–I_B$	25°C	±34V	V_{IN} = 0		±40	nA
1	Input offset current	I_{OS}	25°C	±34V	V_{IN} = 0		±10	nA
3	Quiescent current	I_Q	–55°C	±34V	V_{IN} = 0, A_V = 100, R_{CL} = .1Ω		10	mA
3	Input offset voltage	V_{OS}	–55°C	±34V	V_{IN} = 0, A_V = 100		±15.2	mV
3	Input offset voltage	V_{OS}	–55°C	±10V	V_{IN} = 0, A_V = 100		±21.2	mV
3	Input offset voltage	V_{OS}	–55°C	±40V	V_{IN} = 0, A_V = 100		±16.4	mV
3	Input bias current, +IN	$+I_B$	–55°C	±34V	V_{IN} = 0		±72	nA
3	Input bias current, –IN	$–I_B$	–55°C	±34V	V_{IN} = 0		±72	nA
3	Input offset current	I_{OS}	–55°C	±34V	V_{IN} = 0		±26	nA
2	Quiescent current	I_Q	125°C	±34V	V_{IN} = 0, A_V = 100, R_{CL} = .1Ω		13	mA
2	Input offset voltage	V_{OS}	125°C	±34V	V_{IN} = 0, A_V = 100		±16.5	mV
2	Input offset voltage	V_{OS}	125°C	±10V	V_{IN} = 0, A_V = 100		±22.5	mV
2	Input offset voltage	V_{OS}	125°C	±40V	V_{IN} = 0, A_V = 100		±17.7	mV
2	Input bias current, +IN	$+I_B$	125°C	±34V	V_{IN} = 0		±80	nA
2	Input bias current, –IN	$–I_B$	125°C	±34V	V_{IN} = 0		±80	nA
2	Input offset current	I_{OS}	125°C	±34V	V_{IN} = 0		±30	nA
4	Output voltage, I_O =10A	V_O	25°C	±18V	R_L = 1Ω	10		V
4	Output voltage, I_O = 68mA	V_O	25°C	±40V	R_L = 500Ω	34		V
4	Output voltage, I_O = 4A	V_O	25°C	±30V	R_L = 6Ω	24		V
4	Current limits	I_{CL}	25°C	±16V	R_L = 1Ω, R_{CL} = .1Ω	5	7.9	A
4	Stability/noise	E_N	25°C	±34V	R_L = 500Ω, A_V = +1, C_L = 1.5nF		1	mV
4	Slew rate	SR	25°C	±34V	R_L = 500Ω	1.0	10	V/µs
4	Open loop gain	A_{OL}	25°C	±34V	R_L = 500Ω, F = 10Hz	94		dB
4	Common-mode rejection	CMR	25°C	±15V	R_L = 500Ω, F = DC, V_{CM} = ±9V	70		dB
6	Output voltage, I_O =10A	V_O	–55°C	±18V	R_L = 1Ω	10		V
6	Output voltage, I_O = 68mA	V_O	–55°C	±40V	R_L = 500Ω	34		V
6	Output voltage, I_O = 4A	V_O	–55°C	±30V	R_L = 6Ω	24		V
6	Stability/noise	E_N	–55°C	±34V	R_L = 500Ω, A_V = +1, C_L = 1.5nF		1	mV
6	Slew rate	SR	–55°C	±34V	R_L = 500Ω	1.0	10	V/µs
6	Open loop gain	A_{OL}	–55°C	±34V	R_L = 500Ω, F = 10Hz	94		dB
6	Common-mode rejection	CMR	–55°C	±15V	R_L = 500Ω, F = DC, V_{CM} = ±9V	70		dB
5	Output voltage, I_O = 8A	V_O	125°C	±16V	R_L = 1Ω	8		V
5	Output voltage, I_O = 68mA	V_O	125°C	±40V	R_L = 500Ω	34		V
5	Output voltage, I_O = 4A	V_O	125°C	±30V	R_L = 6Ω	24		V
5	Stability/noise	E_N	125°C	±34V	R_L = 500Ω, A_V = +1, C_L = 1.5nF		1	mV
5	Slew rate	SR	125°C	±34V	R_L = 500Ω	1.0	10	V/µs
5	Open loop gain	A_{OL}	125°C	±34V	R_L = 500Ω, F = 10Hz	94		dB
5	Common-mode rejection	CMR	125°C	±15V	R_L = 500Ω, F = DC, V_{CM} = ±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.

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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