

RADIATION TEST REPORT

PRODUCT: ADA4610-2/QMLR

GAMMA: 100k

GAMMA SOURCE: Co60/TM1019 Condition A

DOSE RATE: 153 Rad(si)/s

FACILITIES: VPT Rad

TESTED: 2/12/15

The RADTESTSM DATA SERVICE is a compilation of radiation test results on Analog Devices' Space grade products. It is designed to assist customers in selecting the right product for applications where radiation is a consideration. Many products manufactured by Analog Devices, Inc. have been shown to be radiation tolerant to most tactical radiation environments. Analog Devices, Inc. does not make any claim to maintain or guarantee these levels of radiation tolerance without lot qualification test.

It is the responsibility of the Procuring Activity to screen products from Analog Devices, Inc. for compliance to Nuclear Hardness Critical Items (HCI) specifications.

WARNING:

Analog Devices, Inc. does not recommend use of this data to qualify other product grades or process levels. Analog Devices, Inc. is not responsible and has no liability for any consequences, and all applicable Warranties are null and void if any Analog product is modified in any way or used outside of normal environmental and operating conditions, including the parameters specified in the corresponding data sheet. Analog Devices, Inc. does not guarantee that wafer manufacturing is the same for all process levels.



SN	+Isy @VS=+5.0V (mA)		-Isy @VS=+5.0V (mA)		Voh(A) Vs=+5.0 RL= 600 (V)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	2.9478	2.9477	-2.9470	-2.9480	4.899	4.89916
Ctrl-56	2.9475	2.9461	-2.9467	-2.9470	4.89863	4.89666
26	2.9597	2.9499	-2.9602	-2.9508	4.89871	4.89742
27	2.9613	2.9524	-2.9602	-2.9511	4.89896	4.89771
28	2.9563	2.9461	-2.9558	-2.9461	4.89798	4.89582
29	2.9591	2.9477	-2.9593	-2.9467	4.89863	4.8973
43	2.9547	2.9423	-2.9549	-2.9420	4.89845	4.89642
44	2.9516	2.9398	-2.9499	-2.9392	4.89814	4.89624
45	2.9472	2.9351	-2.9464	-2.9354	4.89781	4.89649
46	2.9478	2.9367	-2.9473	-2.9351	4.89843	4.89633
Min	2.9472	2.9351	-2.9602	-2.9511	4.89781	4.89582
Max	2.9613	2.9524	-2.9464	-2.9351	4.89896	4.89771
Mean	2.9547	2.9437	-2.9542	-2.9433	4.89839	4.89672
Std. Dev	0.0054	0.0063	0.0057	0.0064	0.00039	0.00067
Mean - 3 Sigma	2.9385	2.9249	-2.9713	-2.9624	4.89722	4.89471
Mean + 3 Sigma	2.9709	2.9625	-2.9371	-2.9242	4.89955	4.89873
	Limit: 3.4mA		Limit: -3.4mA		Limit: >4.6V	

SN	Voh(B) Vs=+5.0 RL= 600 (V)		Vol(A) Vs=+5.0 RL= 600 (V)		Vol(B) Vs=+5.0 RL= 600 (V)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	4.8994	4.8994	-4.9245	-4.9244	-4.92468	-4.92452
Ctrl-56	4.8987	4.8968	-4.9249	-4.9240	-4.92482	-4.92394
26	4.8986	4.8975	-4.9247	-4.9241	-4.92465	-4.92401
27	4.8989	4.8978	-4.9249	-4.9242	-4.92485	-4.92412
28	4.8981	4.8960	-4.9249	-4.9237	-4.92491	-4.92372
29	4.8985	4.8973	-4.9250	-4.9240	-4.92488	-4.92398
43	4.8987	4.8967	-4.9248	-4.9237	-4.92486	-4.92372
44	4.8982	4.8963	-4.9246	-4.9236	-4.92455	-4.92356
45	4.8979	4.8966	-4.9240	-4.9232	-4.924	-4.92318
46	4.8985	4.8965	-4.9246	-4.9234	-4.92454	-4.92339
Min	4.8979	4.8960	-4.9250	-4.9242	-4.92491	-4.92412
Max	4.8989	4.8978	-4.9240	-4.9232	-4.92400	-4.92318
Mean	4.8984	4.8968	-4.9247	-4.9237	-4.92466	-4.92371
Std. Dev	0.0004	0.0006	0.0003	0.0003	0.00030	0.00032
Mean - 3 Sigma	4.8974	4.8950	-4.9256	-4.9247	-4.92557	-4.92468
Mean + 3 Sigma	4.8995	4.8987	-4.9237	-4.9227	-4.92374	-4.92274
	Limit: >4.6V		Limit: <-4.8V		Limit: <-4.8V	

SN	Voh(A) Vs=+5.0 RL= 2K (V)		Voh(B) Vs=+5.0 RL= 2K (V)		Vol(A) Vs=+5.0 RL= 2K (V)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	4.9629	4.9629	4.9628	4.9628	-4.96934	-4.96929
Ctrl-56	4.9628	4.9623	4.9626	4.9622	-4.96943	-4.96918
26	4.9628	4.9620	4.9626	4.9619	-4.96942	-4.96907
27	4.9629	4.9622	4.9627	4.9621	-4.96947	-4.96909
28	4.9625	4.9616	4.9624	4.9615	-4.96954	-4.96902
29	4.9627	4.9620	4.9625	4.9619	-4.96949	-4.96902
43	4.9627	4.9618	4.9627	4.9617	-4.96938	-4.96888
44	4.9626	4.9618	4.9625	4.9616	-4.96929	-4.96885
45	4.9626	4.9618	4.9624	4.9617	-4.9691	-4.96867
46	4.9627	4.9618	4.9626	4.9617	-4.96931	-4.9688
Min	4.9625	4.9616	4.9624	4.9615	-4.96954	-4.96909
Max	4.9629	4.9622	4.9627	4.9621	-4.96910	-4.96867
Mean	4.9627	4.9619	4.9625	4.9617	-4.96938	-4.96893
Std. Dev	0.0001	0.0002	0.0001	0.0002	0.00014	0.00015
Mean - 3 Sigma	4.9623	4.9613	4.9622	4.9612	-4.96980	-4.96937
Mean + 3 Sigma	4.9630	4.9624	4.9629	4.9623	-4.96895	-4.96848
	Limit: >4.85V		Limit: >4.85V		Limit: <-4.9V	

SN	Vol(B) Vs=+5.0 RL= 2K (V)		Vos(A) Vs=+5.0V (uV)		Vos(B) Vs=+5.0V (uV)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	-4.9693	-4.9692	-37.7516	-35.2146	-69.81224	-66.70165
Ctrl-56	-4.9693	-4.9691	11.4190	11.5058	-13.8429	-15.27963
26	-4.9693	-4.9689	9.1228	11.6184	-112.73118	-117.18125
27	-4.9694	-4.9690	-48.4037	-67.6441	7.79553	-33.81045
28	-4.9694	-4.9689	-84.4579	-97.6910	39.4212	22.6664
29	-4.9694	-4.9689	-78.9492	-94.0776	-57.315	-64.96751
43	-4.9693	-4.9688	17.6730	17.5549	-77.77355	-87.32541
44	-4.9692	-4.9688	-54.4257	-78.2599	-38.03029	-48.43688
45	-4.9690	-4.9685	24.1857	-0.7763	-23.70523	-19.99723
46	-4.9692	-4.9687	-76.4915	-78.5917	-27.64023	-33.0771
Min	-4.9694	-4.9690	-84.4579	-97.6910	-112.73118	-117.18125
Max	-4.9690	-4.9685	24.1857	17.5549	39.42120	22.66640
Mean	-4.9693	-4.9688	-36.4683	-48.4834	-36.24734	-47.76618
Std. Dev	0.0001	0.0001	46.0794	49.1496	47.68665	42.79872
Mean - 3 Sigma	-4.9697	-4.9692	-174.7064	-195.9321	-179.30730	-176.16235
Mean + 3 Sigma	-4.9688	-4.9684	101.7697	98.9652	106.81262	80.62999
	Limit:<-4.9V		Limit: +/-400uV		Limit: +/-400uV	

SN	CMRR(A) Vcm=+2.5V Vs=+5V (dB)		CMRR(B) Vcm=+2.5V Vs=+5V (dB)		+Ib(A) Vs=+5.0V Vcm=0 (pA)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	116.1654	116.6344	119.4446	119.3396	2.61779	2.75251
Ctrl-56	128.9281	127.6692	139.1395	138.9143	3.50136	3.32243
26	106.3968	102.8613	120.2581	109.3509	3.2787	5.8047
27	112.0421	112.6799	110.3967	110.5932	3.02975	3.54341
28	143.1605	169.4279	122.0696	122.4324	2.81921	3.71744
29	113.6981	113.0882	116.3762	115.8313	2.80456	3.88566
43	115.7825	116.2699	119.3620	119.5222	3.99453	4.62378
44	109.2694	109.4436	122.7633	122.9464	3.33487	4.58547
45	112.4627	112.1516	116.0118	115.8811	3.18833	4.27593
46	118.1066	117.4087	120.0268	119.7048	3.24603	3.64878
Min	109.2694	109.4436	116.0118	115.8811	3.18833	3.64878
Max	118.1066	117.4087	122.7633	122.9464	3.99453	4.62378
Mean	113.9053	113.8184	119.5410	119.5136	3.44094	4.28349
Std. Dev	3.8621	3.6886	2.7753	2.8876	0.37395	0.45089
Mean - 3 Sigma	102.3189	102.7526	111.2151	110.8507	2.31909	2.93082
Mean + 3 Sigma	125.4917	124.8842	127.8668	128.1765	4.56279	5.63616
	Limit: >94dB		Limit: >94dB		Limit: +/-25pA	

SN	+Ib(B) Vs=+5.0V Vcm=0 (pA)		-Ib(A) Vs=+5.0V Vcm=0 (pA)		-Ib(B) Vs=+5.0V Vcm=0 (pA)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	3.4475	3.1248	2.5075	2.4592	2.95536	2.91919
Ctrl-56	3.9501	4.1935	3.5757	3.1958	3.88534	3.82342
26	3.2927	4.9677	3.1822	5.0409	3.82954	3.73473
27	-0.5951	3.0944	3.3797	3.9975	7.32449	4.72562
28	3.2995	3.4801	2.7958	3.5510	3.32754	3.82294
29	3.0906	3.9615	2.8419	3.8527	3.26244	3.7544
43	3.9829	4.6884	4.4026	4.8800	4.0442	4.96443
44	3.8938	4.3793	3.9319	4.2408	3.59835	4.27962
45	3.9777	4.1916	3.8164	4.3133	3.62166	3.81392
46	3.7805	3.6153	3.9753	3.5899	3.74936	3.54481
Min	-0.5951	3.0944	2.7958	3.5510	3.26244	3.54481
Max	3.9829	4.9677	4.4026	5.0409	7.32449	4.96443
Mean	3.0903	4.0473	3.5407	4.1833	4.09470	4.08006
Std. Dev	1.5294	0.6339	0.5804	0.5525	1.32961	0.51926
Mean - 3 Sigma	-1.4978	2.1456	1.7994	2.5258	0.10588	2.52228
Mean + 3 Sigma	7.6784	5.9490	5.2820	5.8407	8.08352	5.63784
	Limit: +/-25pA		Limit: +/-25pA		Limit: +/-25pA	

	Ios(A) Vs=+-5.0V Vcm=0 (pA)		Ios(B) Vs=+-5.0V Vcm=0 (pA)		+Ib(A) Vs=+-5.0V Vcm=2.5V (pA)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	0.1103	0.2933	0.4921	0.2056	2.23121	2.21234
Ctrl-56	-0.0743	0.1267	0.0648	0.3701	3.75214	3.4204
26	0.0965	0.7639	-0.5369	1.2330	3.30444	3.1106
27	-0.3500	-0.4541	-7.9196	-1.6312	2.7023	4.17984
28	0.0234	0.1665	-0.0280	-0.3428	2.70848	4.14547
29	-0.0373	0.0330	-0.1719	0.2071	2.45441	4.3696
43	-0.4081	-0.2562	-0.0614	-0.2760	3.77312	4.81449
44	-0.5971	0.3446	0.2955	0.0997	3.59786	4.82096
45	-0.6281	-0.0374	0.3561	0.3777	3.27006	4.76215
46	-0.7292	0.0589	0.0311	0.0705	3.64275	4.17962
Min	-0.7292	-0.4541	-7.9196	-1.6312	2.45441	3.11060
Max	0.0965	0.7639	0.3561	1.2330	3.77312	4.82096
Mean	-0.3287	0.0774	-1.0044	-0.0328	3.18168	4.29784
Std. Dev	0.3204	0.3703	2.8078	0.8077	0.49873	0.56340
Mean - 3 Sigma	-1.2899	-1.0335	-9.4278	-2.4559	1.68549	2.60763
Mean + 3 Sigma	0.6324	1.1883	7.4191	2.3904	4.67787	5.98805
	Limit: +/-20pA		Limit: +/-20pA		Limit: +/-25pA	

	+Ib(B) Vs=+-5.0V Vcm=2.5V (pA)		-Ib(A) Vs=+-5.0V Vcm=2.5V (pA)		-Ib(B) Vs=+-5.0V Vcm=2.5V (pA)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	3.0187	2.8952	2.2973	2.4517	2.87128	2.86676
Ctrl-56	3.7191	3.8762	3.5782	3.3053	3.90791	3.95739
26	3.1943	3.1568	3.3232	6.4984	3.33896	5.85452
27	2.9913	4.0850	3.0826	4.1864	3.33441	4.12788
28	2.7216	4.4515	3.1876	4.3606	2.9559	4.46972
29	2.7822	4.5755	2.5638	4.7670	3.0979	4.2253
43	3.7951	4.9997	2.2562	5.0767	1.35952	4.95076
44	3.4429	4.8030	3.6676	4.7202	3.99935	4.51757
45	3.5069	4.9322	3.3534	4.6196	3.90043	4.51121
46	3.5154	4.0488	3.4954	3.9634	3.89379	3.93107
Min	2.7216	3.1568	2.2562	3.9634	1.35952	3.93107
Max	3.7951	4.9997	3.6676	6.4984	3.99935	5.85452
Mean	3.2437	4.3816	3.1162	4.7740	3.23503	4.57350
Std. Dev	0.3852	0.6099	0.4778	0.7806	0.85322	0.60162
Mean - 3 Sigma	2.0882	2.5518	1.6829	2.4323	0.67539	2.76863
Mean + 3 Sigma	4.3992	6.2113	4.5495	7.1158	5.79468	6.37837
	Limit: +/-25pA		Limit: +/-25pA		Limit: +/-25pA	

	Ios(A) Vs=+-5.0V Vcm=2.5V (pA)		Ios(B) Vs=+-5.0V Vcm=2.5V (pA)		+Ib(A) Vs=+-5.0V Vcm=-2.5V (pA)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	-0.0661	-0.2394	0.1474	0.0284	2.47287	2.49871
Ctrl-56	0.1739	0.1152	-0.1888	-0.0813	4.22501	3.96182
26	-0.0188	-3.3878	-0.1447	-2.6977	3.26718	3.76692
27	-0.3803	-0.0066	-0.3431	-0.0429	2.7085	3.1435
28	-0.4791	-0.2151	-0.2343	-0.0182	3.26985	3.14354
29	-0.1094	-0.3974	-0.3157	0.3502	2.88404	3.52553
43	1.5169	-0.2622	2.4356	0.0489	3.64921	4.07719
44	-0.0698	0.1008	-0.5565	0.2854	3.90614	4.10407
45	-0.0833	0.1426	-0.3935	0.4210	4.05022	3.74692
46	0.1474	0.2162	-0.3784	0.1178	3.20886	3.33589
Min	-0.4791	-3.3878	-0.5565	-2.6977	2.70850	3.14350
Max	1.5169	0.2162	2.4356	0.4210	4.05022	4.10407
Mean	0.0655	-0.4762	0.0087	-0.1919	3.36800	3.60545
Std. Dev	0.6195	1.1960	0.9880	1.0270	0.47032	0.38230
Mean - 3 Sigma	-1.7931	-4.0643	-2.9552	-3.2728	1.95705	2.45855
Mean + 3 Sigma	1.9240	3.1119	2.9725	2.8890	4.77895	4.75234
	Limit: +/-20pA		Limit: +/-20pA		Limit: +/-25pA	

	+Ib(B) Vs=+5.0V Vcm=-2.5V (pA)		-Ib(A) Vs=+5.0V Vcm=-2.5V (pA)		-Ib(B) Vs=+5.0V Vcm=-2.5V (pA)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	2.7402	2.4376	1.6418	2.3717	1.32143	2.53086
Ctrl-56	3.4092	3.1879	3.9780	3.8753	3.28904	3.14056
26	2.7421	3.5478	3.4465	4.0471	3.35436	3.64332
27	3.0985	3.3960	3.3555	3.4933	3.00598	3.55377
28	2.5929	3.3588	3.1781	2.9034	2.55394	3.11035
29	2.5227	3.5259	3.4273	3.0017	2.57801	2.98974
43	3.3252	4.4158	3.7456	3.9936	3.30279	3.94296
44	3.2567	3.9432	4.2246	3.5462	3.02752	3.702
45	3.0030	3.7935	3.4196	3.4374	2.91518	3.38286
46	3.0795	3.2225	3.9303	3.3462	3.18736	3.08187
Min	2.5227	3.2225	3.1781	2.9034	2.55394	2.98974
Max	3.3252	4.4158	4.2246	4.0471	3.35436	3.94296
Mean	2.9526	3.6504	3.5909	3.4711	2.99064	3.42586
Std. Dev	0.2999	0.3875	0.3471	0.4089	0.30159	0.34168
Mean - 3 Sigma	2.0528	2.4880	2.5495	2.2445	2.08588	2.40082
Mean + 3 Sigma	3.8523	4.8128	4.6324	4.6977	3.89541	4.45090
	Limit: +/-25pA		Limit: +/-25pA		Limit: +/-25pA	

	Ios(A) Vs=+5.0V Vcm=-2.5V (pA)		Ios(B) Vs=+5.0V Vcm=-2.5V (pA)		AVO(A) Vo= +3.5V RL=2K (dB)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	0.5894	-0.1594	1.6973	0.3643	100.05092	99.95528
Ctrl-56	-0.2259	-0.4549	0.4301	0.7356	99.38857	99.15494
26	-0.1420	-0.9365	-0.1601	-0.4865	99.69785	99.57763
27	-0.6533	0.6865	-0.0147	0.5312	99.76528	99.61783
28	-0.4696	1.2421	0.1677	1.3412	99.49284	99.29092
29	-0.9729	1.3679	0.2042	1.5858	99.65958	99.5513
43	0.0276	0.8209	0.4923	1.0567	99.15035	98.92608
44	-0.6268	1.2748	0.4153	1.1010	99.28984	99.08965
45	-0.1496	1.3247	0.5917	1.5493	99.18144	98.93565
46	-0.2876	0.8334	0.3280	0.9670	99.34444	99.10832
Min	-0.9729	-0.9365	-0.1601	-0.4865	99.15035	98.92608
Max	0.0276	1.3679	0.5917	1.5858	99.76528	99.61783
Mean	-0.4093	0.8267	0.2531	0.9557	99.44770	99.26217
Std. Dev	0.3322	0.7599	0.2552	0.6750	0.24061	0.28870
Mean - 3 Sigma	-1.4059	-1.4531	-0.5126	-1.0693	98.72587	98.39607
Mean + 3 Sigma	0.5874	3.1066	1.0187	2.9808	100.16954	100.12827
	Limit: +/-20pA		Limit: +/-20pA		Limit: >98dB	

	AVO(B) Vo= +3.5V RL=2K (dB)		ISC_A_POS_5 (mA)		ISC_A_NEG_5 (mA)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	100.0927	99.9970	-57.1633	-57.0736	62.085	61.97342
Ctrl-56	99.3648	99.1835	-56.0412	-55.7879	61.8807	61.61192
26	99.4967	99.5104	-56.6069	-56.3066	62.00957	61.77853
27	99.5655	99.6104	-56.7327	-56.4197	61.95613	61.70937
28	99.4477	99.3002	-56.2706	-55.8822	61.72982	61.37616
29	99.4620	99.3077	-56.3209	-56.0016	61.84926	61.57735
43	99.2693	99.0104	-55.8369	-55.4012	61.6041	61.22527
44	99.2501	99.0876	-55.9249	-55.5898	61.61038	61.31958
45	99.3158	99.1033	-56.1512	-55.8256	61.45008	61.18127
46	99.4205	99.1376	-56.0820	-55.6276	61.58524	61.18755
Min	99.2501	99.0104	-56.7327	-56.4197	61.45008	61.18127
Max	99.5655	99.6104	-55.8369	-55.4012	62.00957	61.77853
Mean	99.4035	99.2585	-56.2408	-55.8818	61.72432	61.41939
Std. Dev	0.1133	0.2141	0.3116	0.3522	0.19739	0.23844
Mean - 3 Sigma	99.0636	98.6161	-57.1755	-56.9383	61.13216	60.70406
Mean + 3 Sigma	99.7433	99.9008	-55.3061	-54.8253	62.31648	62.13471
	Limit: >98dB		Limit: >-65mA		Limit: <65mA	

SN	ISC_B_POS_5 (mA)		ISC_B_NEG_5 (mA)	
	PRE	100k	PRE	100k
Ctrl-20	-57.0910	-56.9981	61.9624	61.8414
Ctrl-56	-55.8903	-55.6307	61.6544	61.3919
26	-56.2455	-55.9671	61.7204	61.5051
27	-56.5284	-56.2311	61.7613	61.5302
28	-55.9846	-55.5678	61.5035	61.1184
29	-55.8809	-55.5521	61.4029	61.1247
43	-55.6451	-55.1812	61.4218	61.0147
44	-55.6011	-55.2441	61.3809	61.0838
45	-55.9532	-55.5993	61.2929	61.0115
46	-55.8903	-55.4138	61.3369	60.9204
Min	-56.5284	-56.2311	61.2929	60.9204
Max	-55.6011	-55.1812	61.7613	61.5302
Mean	-55.9661	-55.5945	61.4776	61.1636
Std. Dev	0.3033	0.3531	0.1740	0.2285
Mean - 3 Sigma	-56.8760	-56.6539	60.9555	60.4782
Mean + 3 Sigma	-55.0562	-54.5352	61.9997	61.8490
	Limit: >-65mA		Limit: <65mA	

SN	Isy+ Vsy=+-15V (mA)		Isy- Vsy=+-15V (mA)		Voh(A) Vs=+-15.0V RL=600 (V)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	3.2622	3.2625	-3.2630	-3.2621	14.54427	14.54229
Ctrl-56	3.2783	3.2791	-3.2780	-3.2794	14.52108	14.51507
26	3.2767	3.2634	-3.2758	-3.2640	14.53595	14.52988
27	3.2742	3.2619	-3.2746	-3.2618	14.5374	14.531
28	3.2776	3.2641	-3.2771	-3.2633	14.52813	14.51934
29	3.2855	3.2710	-3.2846	-3.2699	14.52861	14.52144
43	3.2905	3.2747	-3.2906	-3.2737	14.51596	14.50525
44	3.2871	3.2710	-3.2874	-3.2706	14.51909	14.51083
45	3.2833	3.2666	-3.2840	-3.2671	14.52221	14.51459
46	3.2811	3.2656	-3.2809	-3.2649	14.52274	14.51193
Min	3.2742	3.2619	-3.2906	-3.2737	14.51596	14.50525
Max	3.2905	3.2747	-3.2746	-3.2618	14.53740	14.53100
Mean	3.2820	3.2673	-3.2819	-3.2669	14.52626	14.51803
Std. Dev	0.0056	0.0045	0.0058	0.0041	0.00768	0.00915
Mean - 3 Sigma	3.2651	3.2538	-3.2992	-3.2793	14.50321	14.49058
Mean + 3 Sigma	3.2988	3.2807	-3.2646	-3.2545	14.54931	14.54549
	Limit: <3.7mA		Limit: >-3.7mA		Limit: >14.25V	

SN	Voh(B) Vs=+-15.0V RL=600 (V)		Vol(A) Vs=+-15.0V RL=600 (V)		Vol(B) Vs=+-15.0V RL=600 (V)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	14.5462	14.5440	-14.7884	-14.7876	-14.78888	-14.78792
Ctrl-56	14.5219	14.5160	-14.7892	-14.7879	-14.78868	-14.78746
26	14.5333	14.5279	-14.7889	-14.7876	-14.7883	-14.7871
27	14.5358	14.5298	-14.7896	-14.7882	-14.78916	-14.78782
28	14.5265	14.5181	-14.7894	-14.7876	-14.789	-14.78719
29	14.5257	14.5189	-14.7889	-14.7870	-14.78825	-14.78654
43	14.5181	14.5074	-14.7880	-14.7861	-14.78794	-14.78578
44	14.5173	14.5091	-14.7878	-14.7865	-14.78757	-14.78605
45	14.5220	14.5143	-14.7873	-14.7857	-14.78689	-14.7853
46	14.5231	14.5123	-14.7883	-14.7861	-14.78792	-14.78565
Min	14.5173	14.5074	-14.7896	-14.7882	-14.78916	-14.78782
Max	14.5358	14.5298	-14.7873	-14.7857	-14.78689	-14.78530
Mean	14.5252	14.5172	-14.7885	-14.7868	-14.78813	-14.78643
Std. Dev	0.0066	0.0082	0.0008	0.0009	0.00074	0.00088
Mean - 3 Sigma	14.5053	14.4927	-14.7910	-14.7894	-14.79034	-14.78907
Mean + 3 Sigma	14.5451	14.5418	-14.7861	-14.7842	-14.78592	-14.78379
	Limit: >14.25V		Limit: <-14.6V		Limit: <-14.6V	

SN	Voh(A) Vs=+-15.0V RL=2k (V)		Voh(B) Vs=+-15.0V RL=2k (V)		Vol(A) Vs=+-15.0V RL=2k (V)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	14.9061	14.9059	14.9058	14.9055	-14.92887	-14.92864
Ctrl-56	14.9056	14.9049	14.9050	14.9043	-14.92917	-14.92884
26	14.9057	14.9043	14.9050	14.9036	-14.92907	-14.92829
27	14.9061	14.9048	14.9055	14.9042	-14.92936	-14.92857
28	14.9052	14.9035	14.9046	14.9030	-14.92935	-14.92843
29	14.9052	14.9038	14.9045	14.9032	-14.92911	-14.9281
43	14.9050	14.9030	14.9045	14.9026	-14.92881	-14.92789
44	14.9050	14.9034	14.9044	14.9028	-14.92875	-14.92799
45	14.9053	14.9037	14.9047	14.9031	-14.92854	-14.9277
46	14.9054	14.9035	14.9048	14.9030	-14.92891	-14.92787
Min	14.9050	14.9030	14.9044	14.9026	-14.92936	-14.92857
Max	14.9061	14.9048	14.9055	14.9042	-14.92854	-14.92770
Mean	14.9054	14.9038	14.9047	14.9032	-14.92899	-14.92811
Std. Dev	0.0004	0.0005	0.0004	0.0005	0.00029	0.00030
Mean - 3 Sigma	14.9042	14.9021	14.9037	14.9017	-14.92986	-14.92901
Mean + 3 Sigma	14.9065	14.9054	14.9058	14.9047	-14.92812	-14.92720
	Limit: >14.8V		Limit: >14.8V		Limit: <-14.85V	

SN	Vol(B) Vs=+-15.0V RL=2k (V)		Vos(A) Vs=+-15.0V (uV)		Vos(B) Vs=+-15.0V (uV)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	-14.9287	-14.9285	-31.9147	-30.1651	-50.3259	-47.97402
Ctrl-56	-14.9288	-14.9284	23.4981	24.8740	12.83213	11.41009
26	-14.9286	-14.9279	-51.2581	-52.2129	-110.14668	-108.81187
27	-14.9290	-14.9282	-65.0322	-80.4284	-45.99009	-52.30986
28	-14.9290	-14.9281	-55.2806	-67.9219	64.57447	47.52369
29	-14.9287	-14.9278	-83.3972	-118.9651	-56.38544	-72.88537
43	-14.9285	-14.9275	26.9277	39.5581	-61.86711	-68.07037
44	-14.9284	-14.9276	-109.9409	-142.0971	-37.75537	-50.16148
45	-14.9282	-14.9273	-5.9471	-40.7127	-14.74776	-16.39082
46	-14.9285	-14.9275	-68.9195	-65.9789	-40.10665	-38.49854
Min	-14.9290	-14.9282	-109.9409	-142.0971	-110.14668	-108.81187
Max	-14.9282	-14.9273	26.9277	39.5581	64.57447	47.52369
Mean	-14.9286	-14.9277	-51.6060	-66.0949	-37.80308	-44.95058
Std. Dev	0.0003	0.0003	43.3582	54.4845	49.63153	46.11048
Mean - 3 Sigma	-14.9294	-14.9287	-181.6807	-229.5483	-186.69768	-183.28201
Mean + 3 Sigma	-14.9278	-14.9268	78.4688	97.3586	111.09152	93.38086
	Limit: <-14.85V		Limit: +/-400uV		Limit: +/-400uV	

SN	CMRR(A) Vcm=+-12.6 Vs=+-15V (dB)		CMRR(B) Vcm=+-12.6 Vs=+-15V (dB)		+Ib(A) Vs=+-15.0V Vcm=0 (pA)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	115.4862	115.4496	117.9589	117.9222	3.2981	2.5695
Ctrl-56	121.7128	121.9382	124.0926	124.1156	3.1126	2.9397
26	107.4167	107.1505	117.5880	117.3495	3.1396	11.2828
27	112.0251	112.0895	110.8286	110.8380	2.9075	9.2863
28	128.3738	129.1110	119.7617	120.1616	2.8384	5.9120
29	113.5284	113.6554	115.3845	115.5328	1.0743	10.9014
43	114.8886	114.9235	118.1147	118.4679	2.4569	13.9556
44	110.1059	110.2313	118.5504	118.8258	3.3304	13.7766
45	112.3149	112.4318	114.7946	115.2035	3.1942	14.9452
46	116.3021	116.5676	117.5337	117.7597	3.1053	11.3652
Min	107.4167	107.1505	110.8286	110.8380	1.0743	5.9120
Max	128.3738	129.1110	119.7617	120.1616	3.3304	14.9452
Mean	114.3694	114.5201	116.5695	116.7674	2.7558	11.4281
Std. Dev	6.2914	6.5571	2.8280	2.9057	0.7308	2.9177
Mean - 3 Sigma	95.4953	94.8487	108.0856	108.0503	0.5634	2.6751
Mean + 3 Sigma	133.2436	134.1915	125.0534	125.4844	4.9482	20.1812
	Limit: >100dB		Limit: >100dB		Limit: +/-25pA	

	+Ib(B) Vs=+15.0V Vcm=0 (pA)		-Ib(A) Vs=+15.0V Vcm=0 (pA)		-Ib(B) Vs=+15.0V Vcm=0 (pA)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	3.4734	2.9529	3.5845	2.2786	4.17089	2.85422
Ctrl-56	3.7910	3.4402	3.3799	3.1477	3.81432	3.68935
26	3.4406	9.9039	3.0985	2.7403	3.20643	3.35894
27	3.3221	9.4814	2.7684	2.5863	3.26467	2.99453
28	2.6474	6.0230	2.2619	4.8184	2.35483	4.67692
29	1.9895	10.0335	4.0242	3.0289	3.81665	4.20899
43	2.7563	14.6378	2.6945	5.7625	3.06492	5.61137
44	3.8899	12.0881	3.0653	2.7598	3.3816	5.24815
45	3.1500	12.2813	2.9293	1.9201	3.51026	5.90076
46	3.4871	11.4155	2.9902	5.0426	3.63305	4.60536
Min	1.9895	6.0230	2.2619	1.9201	2.35483	2.99453
Max	3.8899	14.6378	4.0242	5.7625	3.81665	5.90076
Mean	3.0854	10.7330	2.9790	3.5824	3.27905	4.57563
Std. Dev	0.5971	2.5319	0.5009	1.4071	0.44462	1.02865
Mean - 3 Sigma	1.2939	3.1372	1.4763	-0.6390	1.94519	1.48969
Mean + 3 Sigma	4.8768	18.3288	4.4817	7.8038	4.61292	7.66157
	Limit: +/-25pA		Limit: +/-25pA		Limit: +/-25pA	

	Ios(A) Vs=+15.0V Vcm=0 (pA)		Ios(B) Vs=+15.0V Vcm=0 (pA)		+Ib(A) Vs=+15.0V Vcm=12.6V (pA)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	-0.2863	0.2909	-0.6975	0.0987	2.63952	3.08582
Ctrl-56	-0.2674	-0.2080	-0.0233	-0.2492	3.856	3.63332
26	0.0412	8.5426	0.2342	6.5449	3.7913	12.29519
27	0.1391	6.6999	0.0574	6.4868	3.48486	11.09387
28	0.5765	1.0937	0.2926	1.3461	3.44254	9.07758
29	-2.9499	7.8725	-1.8271	5.8245	3.50654	11.53076
43	-0.2376	8.1931	-0.3087	9.0265	3.71459	10.58752
44	0.2651	11.0168	0.5083	6.8399	4.00419	11.96165
45	0.2649	13.0250	-0.3602	6.3805	3.65512	13.62874
46	0.1150	6.3227	-0.1460	6.8102	3.81876	8.94615
Min	-2.9499	1.0937	-1.8271	1.3461	3.44254	8.94615
Max	0.5765	13.0250	0.5083	9.0265	4.00419	13.62874
Mean	-0.2232	7.8458	-0.1937	6.1574	3.67724	11.14018
Std. Dev	1.1255	3.5196	0.7257	2.1611	0.19385	1.59150
Mean - 3 Sigma	-3.5997	-2.7129	-2.3709	-0.3258	3.09568	6.36570
Mean + 3 Sigma	3.1532	18.4045	1.9835	12.6407	4.25879	15.91467
	Limit: +/-20pA		Limit: +/-20pA		Limit: +/-25pA	

	+Ib(B) Vs=+15.0V Vcm=12.6V (pA)		-Ib(A) Vs=+15.0V Vcm=12.6V (pA)		-Ib(B) Vs=+15.0V Vcm=12.6V (pA)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	3.8300	3.2231	12.5782	3.0240	15.6182	2.98065
Ctrl-56	4.1640	3.7804	3.7410	3.4943	3.74306	3.53996
26	3.3603	9.9058	3.2156	7.3141	2.93717	7.13464
27	3.9277	10.3882	3.2747	5.9720	3.48701	6.23082
28	3.1988	9.4401	2.9122	8.4393	2.95311	8.12003
29	3.1305	10.0365	2.9999	7.4077	3.0136	8.47773
43	4.0448	11.3195	3.5227	9.7791	3.65573	9.2305
44	4.1004	9.8374	3.8561	6.4581	3.6157	8.08692
45	3.7902	9.4290	3.2623	5.6633	3.54081	8.91207
46	3.6959	9.7546	3.5761	8.9573	3.49126	8.19018
Min	3.1305	9.4290	2.9122	5.6633	2.93717	6.23082
Max	4.1004	11.3195	3.8561	9.7791	3.65573	9.23050
Mean	3.6561	10.0139	3.3274	7.4989	3.33680	8.04786
Std. Dev	0.3807	0.6126	0.3114	1.4657	0.31143	0.96310
Mean - 3 Sigma	2.5138	8.1761	2.3933	3.1018	2.40251	5.15857
Mean + 3 Sigma	4.7983	11.8516	4.2615	11.8959	4.27109	10.93715
	Limit: +/-25pA		Limit: +/-25pA		Limit: +/-25pA	

	Ios(A) Vs=+-15.0V Vcm=12.6V (pA)		Ios(B) Vs=+-15.0V Vcm=12.6V (pA)		+Ib(A) Vs=+-15.0V Vcm=-12.6V (pA)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	-9.9387	0.0619	-11.7882	0.2425	2.7456	2.95422
Ctrl-56	0.1150	0.1390	0.4209	0.2405	6.4561	6.63664
26	0.5757	4.9811	0.4231	2.7711	3.48918	3.46683
27	0.2102	5.1219	0.4407	4.1574	3.35829	3.47196
28	0.5304	0.6383	0.2457	1.3200	5.3891	0.72042
29	0.5067	4.1231	0.1169	1.5588	5.67487	3.23619
43	0.1919	0.8085	0.3891	2.0890	5.41538	2.29597
44	0.1481	5.5036	0.4847	1.7504	6.59187	4.68531
45	0.3928	7.9655	0.2494	0.5169	6.27239	4.92966
46	0.2427	-0.0112	0.2046	1.5644	5.29151	1.05131
Min	0.1481	-0.0112	0.1169	0.5169	3.35829	0.72042
Max	0.5757	7.9655	0.4847	4.1574	6.59187	4.92966
Mean	0.3498	3.6413	0.3193	1.9660	5.18532	2.98221
Std. Dev	0.1718	2.8478	0.1321	1.0926	1.17840	1.53750
Mean - 3 Sigma	-0.1657	-4.9021	-0.0770	-1.3118	1.65012	-1.63029
Mean + 3 Sigma	0.8653	12.1847	0.7156	5.2438	8.72053	7.59470
	Limit: +/-20pA		Limit: +/-20pA		Limit: +/-25pA	

	+Ib(B) Vs=+-15.0V Vcm=-12.6V (pA)		-Ib(A) Vs=+-15.0V Vcm=-12.6V (pA)		-Ib(B) Vs=+-15.0V Vcm=-12.6V (pA)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	2.8084	3.1236	2.5833	2.6761	2.4394	2.64107
Ctrl-56	5.5844	5.4439	4.7403	4.6458	3.6273	3.49777
26	3.1233	2.4445	3.2683	1.6275	3.01341	2.94892
27	3.6632	3.2400	3.9896	0.3326	3.33899	1.15981
28	4.1827	1.1593	3.1574	1.8730	2.02148	1.6685
29	4.7388	2.0211	4.2648	0.7674	2.45315	2.15509
43	5.5812	2.7980	3.3349	4.0930	3.24687	3.786
44	5.4783	2.7862	5.0410	0.4788	3.5548	3.06218
45	5.0614	1.3178	3.6829	-1.7595	2.89103	2.0234
46	5.2431	1.7869	4.8322	2.7532	3.21215	1.73382
Min	3.1233	1.1593	3.1574	-1.7595	2.02148	1.15981
Max	5.5812	3.2400	5.0410	4.0930	3.55480	3.78600
Mean	4.6340	2.1942	3.9464	1.2708	2.96649	2.31722
Std. Dev	0.8947	0.7470	0.7183	1.7564	0.50544	0.87217
Mean - 3 Sigma	1.9500	-0.0469	1.7915	-3.9986	1.45017	-0.29929
Mean + 3 Sigma	7.3180	4.4353	6.1013	6.5401	4.48280	4.93372
	Limit: +/-25pA		Limit: +/-25pA		Limit: +/-25pA	

	Ios(A) Vs=+-15.0V Vcm=-12.6V (pA)		Ios(B) Vs=+-15.0V Vcm=-12.6V (pA)		Avo(A) Vo=+-13.5V RL=2k (dB)	
SN	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	0.1623	0.2781	0.3690	0.4826	105.3401	105.33481
Ctrl-56	1.7158	1.9908	1.9571	1.9461	104.79119	104.69473
26	0.2209	1.8394	0.1099	-0.5044	105.18321	104.48025
27	-0.6313	3.1394	0.3242	2.0802	105.14288	105.06322
28	2.2317	-1.1526	2.1612	-0.5092	104.94528	104.79312
29	1.4101	2.4688	2.2857	-0.1340	105.00819	104.90369
43	2.0805	-1.7971	2.3344	-0.9880	104.59019	104.51193
44	1.5508	4.2065	1.9234	-0.2759	104.79504	104.74559
45	2.5895	6.6891	2.1704	-0.7056	104.69078	104.63181
46	0.4593	-1.7019	2.0310	0.0531	104.81421	104.65813
Min	-0.6313	-1.7971	0.1099	-0.9880	104.59019	104.48025
Max	2.5895	6.6891	2.3344	2.0802	105.18321	105.06322
Mean	1.2389	1.7115	1.6675	-0.1230	104.89622	104.72347
Std. Dev	1.1203	3.0658	0.9065	0.9480	0.21077	0.19633
Mean - 3 Sigma	-2.1221	-7.4860	-1.0519	-2.9670	104.26391	104.13447
Mean + 3 Sigma	4.6000	10.9089	4.3869	2.7210	105.52854	105.31247
	Limit: +/-20pA		Limit: +/-20pA		Limit: >104dB	

SN	Avo(B) Vo=+-13.5V RL=2k (dB)		ISC_A_POS_15 (mA)		ISC_A_NEG_15 (mA)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	105.4233	105.4387	-77.8201	-77.7451	74.64506	74.55366
Ctrl-56	104.8034	104.7158	-77.1223	-76.9027	74.47533	74.21102
26	104.9186	104.1373	-77.1663	-76.6166	74.20187	73.87781
27	105.0528	105.0639	-78.0056	-77.4371	75.49372	75.12263
28	104.8596	104.7495	-76.8929	-76.2866	74.11701	73.70491
29	104.8532	104.7598	-76.7169	-76.1451	73.76812	73.40314
43	104.6781	104.5800	-76.3994	-75.7082	73.2495	72.79645
44	104.6970	104.5891	-76.8646	-76.2551	73.82784	73.44401
45	104.7878	104.8131	-77.2764	-76.7769	74.09815	73.82437
46	104.8817	104.7762	-77.1758	-76.3934	74.23645	73.65777
Min	104.6781	104.1373	-78.0056	-77.4371	73.24950	72.79645
Max	105.0528	105.0639	-76.3994	-75.7082	75.49372	75.12263
Mean	104.8411	104.6836	-77.0622	-76.4524	74.12408	73.72889
Std. Dev	0.1214	0.2668	0.4760	0.5099	0.64083	0.65859
Mean - 3 Sigma	104.4770	103.8832	-78.4901	-77.9821	72.20158	71.75313
Mean + 3 Sigma	105.2052	105.4840	-75.6343	-74.9226	76.04658	75.70465
	Limit: >104dB		Limit: >-85mA		Limit: <85mA	

SN	ISC_B_POS_15 (mA)		ISC_B_NEG_15 (mA)		PSRR (A) +-18V_+4.5V (dB)	
	PRE	100k	PRE	100k	PRE	100k
Ctrl-20	-76.6634	-76.5946	73.8247	73.7301	130.01706	130.9091
Ctrl-56	-76.0191	-75.7899	73.6770	73.4157	123.64451	123.49924
26	-75.3119	-74.8028	73.0043	72.7179	110.87914	108.65045
27	-77.0343	-76.4752	74.7582	74.4028	121.49869	123.22012
28	-75.3873	-74.6802	73.1301	72.6330	117.24048	117.00514
29	-74.8247	-74.1427	72.4763	72.0200	125.89961	119.63685
43	-74.7147	-73.8849	72.1368	71.5831	126.99947	120.91422
44	-75.3245	-74.5985	72.8818	72.4035	111.73929	110.70784
45	-76.0505	-75.4504	73.3501	72.9945	117.21471	114.74641
46	-76.0034	-75.1015	73.3784	72.7022	128.1442	124.84513
Min	-77.0343	-76.4752	72.1368	71.5831	110.87914	108.65045
Max	-74.7147	-73.8849	74.7582	74.4028	128.14420	124.84513
Mean	-75.5814	-74.8920	73.1395	72.6821	119.95195	117.46577
Std. Dev	0.7568	0.8086	0.7793	0.8269	6.75231	5.79605
Mean - 3 Sigma	-77.8518	-77.3178	70.8014	70.2014	99.69502	100.07762
Mean + 3 Sigma	-73.3110	-72.4663	75.4775	75.1628	140.20888	134.85392
	Limit: >-85mA		Limit: <85mA		Limit: >106dB	

SN	PSRR (B) +-18V_+4.5V (dB)	
	PRE	100k
Ctrl-20	120.1079	120.2440
Ctrl-56	117.6541	117.5818
26	137.8212	128.5064
27	123.3066	124.4814
28	118.4720	118.5188
29	131.6461	127.9246
43	121.0971	120.1675
44	155.2467	144.9428
45	127.2673	134.4829
46	124.7542	128.9915
Min	118.4720	118.5188
Max	155.2467	144.9428
Mean	129.9514	128.5020
Std. Dev	11.9116	8.3831
Mean - 3 Sigma	94.2166	103.3526
Mean + 3 Sigma	165.6862	153.6513
	Limit: >106dB	



















