

RADIATION TEST REPORT

PRODUCT:

AD8001SQ/QMLR

GAMMA:

50k,100k, 24Hr/ TM1019 Condition D

GAMMA SOURCE:

Co60

DOSE RATE:

9.7mRad(si)/s

FACILITIES:

University of Massachusetts @ Lowell

TESTED:

2011

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.

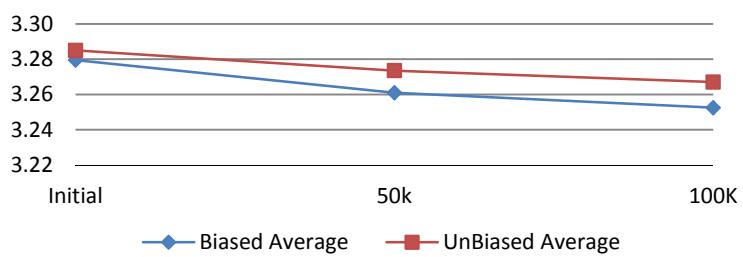
WARNING:

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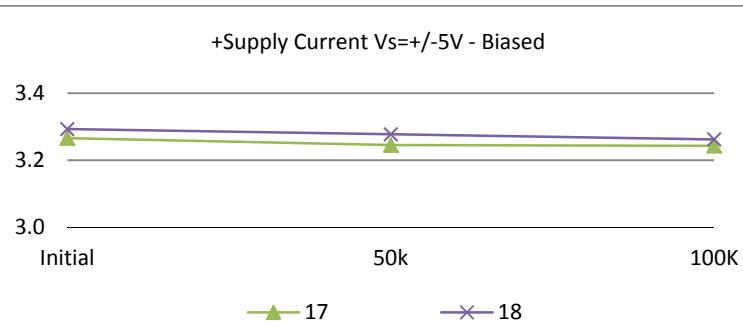


	T# 1	IQ+ @ VS=+-5V			mA
		SN	Initial	50k	
Control	20	3.3070	3.297	3.303	<5.5
Biased	17	3.2660	3.245	3.243	
	18	3.2930	3.277	3.262	
	Min	3.266	3.245	3.243	
	Max	3.293	3.277	3.262	
	Average	3.280	3.261	3.253	
UnBiased	21	3.259	3.224	3.220	
	22	3.311	3.323	3.314	
	Min	3.259	3.224	3.220	
	Max	3.311	3.323	3.314	
	Average	3.285	3.274	3.267	

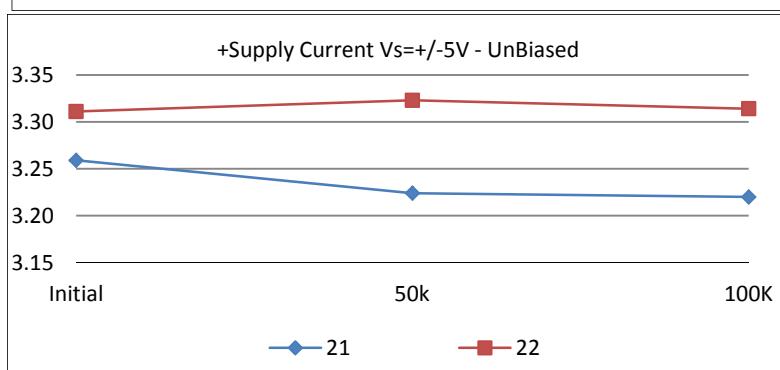
+Supply Current Vs=+/-5V - Average



+Supply Current Vs=+/-5V - Biased

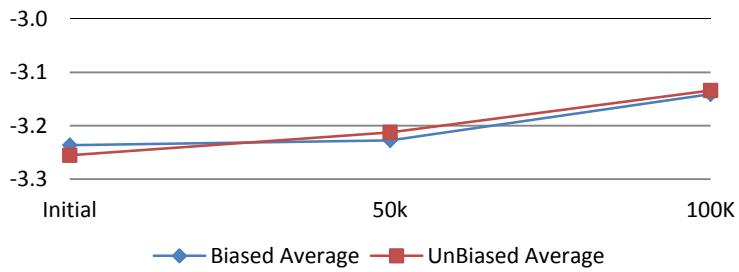


+Supply Current Vs=+/-5V - UnBiased

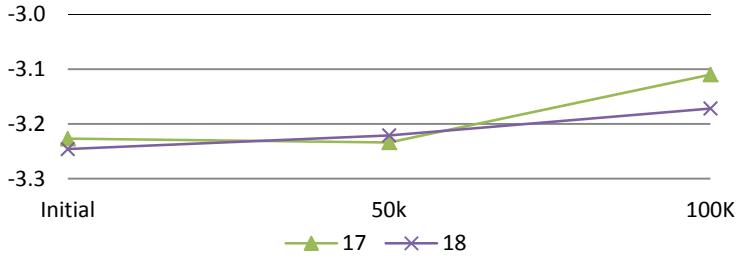


Control	T#2	IQ- @ VS=+/-5V			mA 25°C	
		SN	Initial			
			50k	100K		
Control	20	-3.304	-3.267	-3.186	>-5.5	
Biased	17	-3.227	-3.234	-3.110		
	18	-3.246	-3.221	-3.172		
	Min	-3.246	-3.234	-3.172		
	Max	-3.227	-3.221	-3.110		
	Average	-3.237	-3.228	-3.141		
UnBiased	21	-3.237	-3.181	-3.117		
	22	-3.274	-3.244	-3.151		
	Min	-3.274	-3.244	-3.151		
	Max	-3.237	-3.181	-3.117		
	Average	-3.256	-3.213	-3.134		

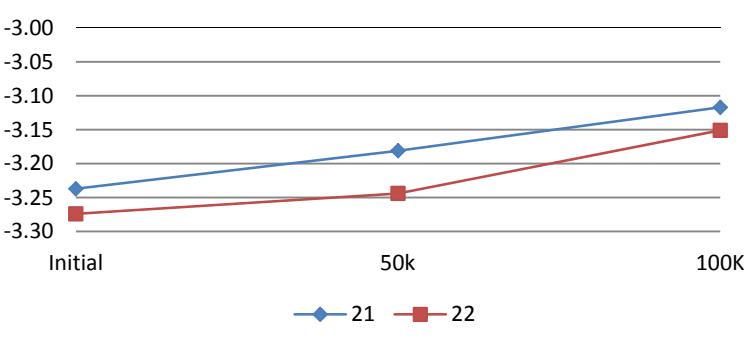
-Supply Current Vs=+/-5V - Average



-Supply Current Vs=+/-5V - Biased

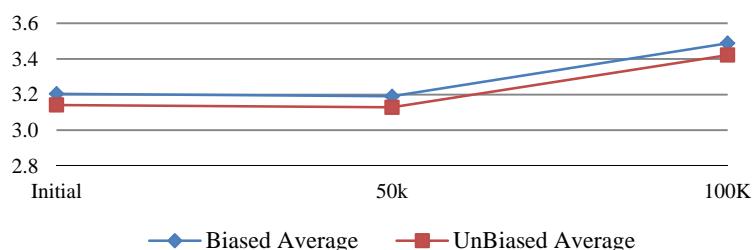


-Supply Current Vs=+/-5V - UnBiased

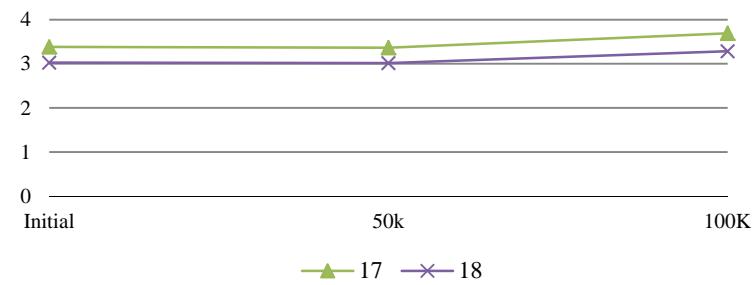


	T#3	VOS @ VS=+-5V			mV
	SN	Initial	50k	100K	25°C
Control	20	3.344	3.359	3.354	Limit
Biased	17	3.383	3.366	3.692	<6.5
	18	3.026	3.015	3.284	
	Min	3.026	3.015	3.284	
	Max	3.383	3.366	3.692	
	Average	3.205	3.191	3.488	
UnBiased	21	3.538	3.530	3.842	
	22	2.745	2.727	3.001	
	Min	2.745	2.727	3.001	
	Max	3.538	3.530	3.842	
	Average	3.142	3.129	3.422	

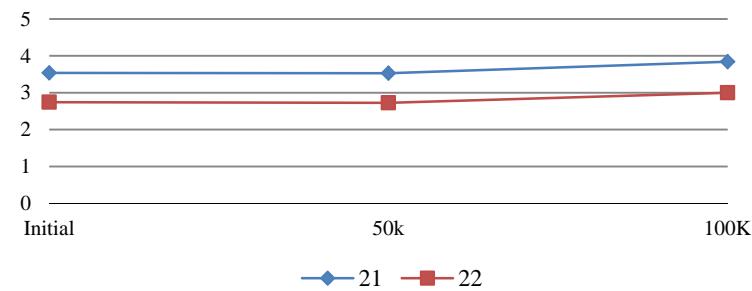
VOS @ VS=+-5V - Average



VOS @ VS=+-5V - Biased

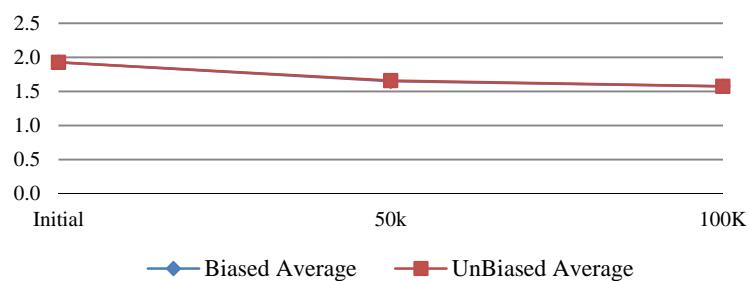


-Output Voltage Swing RL=0.6k - UnBiased

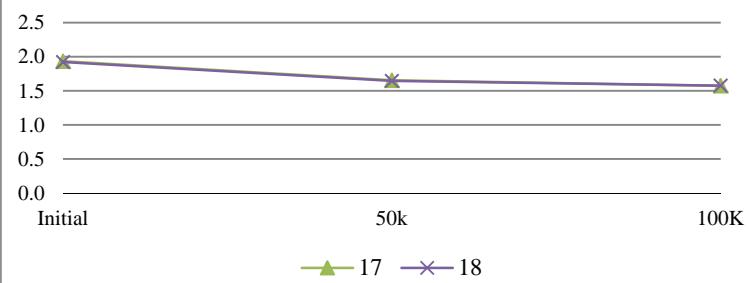


	T#4	IIB+ @ VS=+-5V			uA
		SN	Initial	50k	
Control	20	1.920	1.778	1.769	Limit
Biased	17	1.933	1.654	1.573	+/-10
	18	1.922	1.645	1.576	
	Min	1.922	1.645	1.573	
	Max	1.933	1.654	1.576	
	Average	1.928	1.650	1.575	
UnBiased	21	1.940	1.666	1.582	
	22	1.913	1.651	1.566	
	Min	1.913	1.651	1.566	
	Max	1.940	1.666	1.582	
	Average	1.927	1.659	1.574	

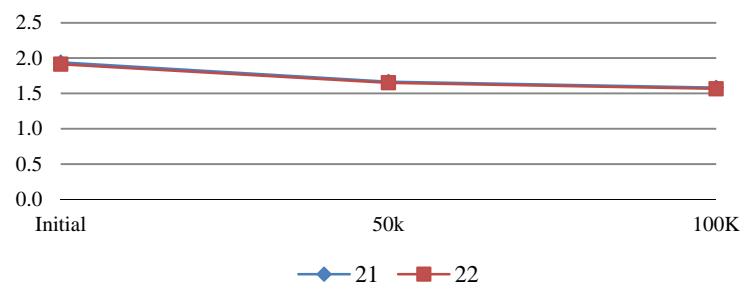
IIB+ @ VS=+-5V - Average



IIB+ @ VS=+-5V - Biased

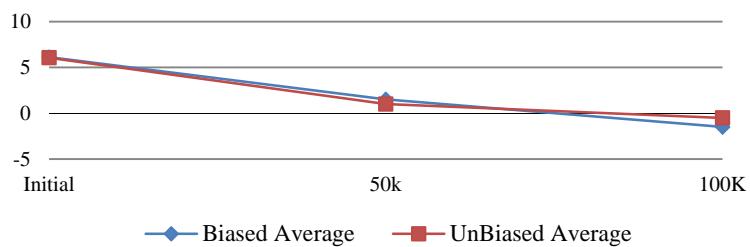


IIB+ @ VS=+-5V - UnBiased

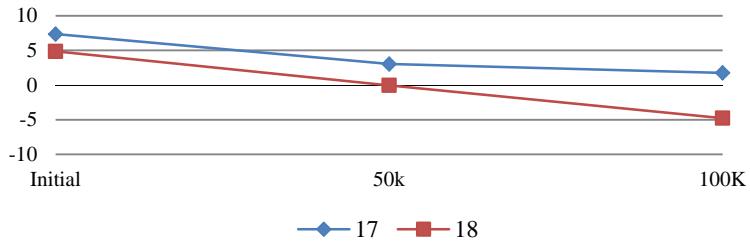


	T#5	IIB- @ VS=+-5V			uA
	SN	Initial	50k	100K	25°C
Control	20	7.683	7.436	7.296	Limit
Biased	17	7.361	3.039	1.766	+/-25
	18	4.865	-0.036	-4.768	
	Min	4.865	-0.036	-4.768	
	Max	7.361	3.039	1.766	
	Average	6.113	1.502	-1.501	
UnBiased	21	7.472	3.039	1.768	
	22	4.626	-1.046	-2.801	
	Min	4.626	-1.046	-2.801	
	Max	7.472	3.039	1.768	
	Average	6.049	0.997	-0.517	

IIB- @ VS=+-5V - Average



IIB- @ VS=+-5V - Biased



IIB- @ VS=+-5V- UnBiased

