

02/04/104

LM2903

13:35:52

Test Name

Cpk 25

Cpk 125

Cpk -40

Page: 0001

Vol:5v:4mA	20.15 Max	20.81 Max	64.12 Max
Voh:5v:4mA	327.24 Min	454.80 Min	295.32 Min
Ioh_P:5v	284.40 Min	4.07 Max	10.18 Max
Ioh_P:32v	212.98 Max	2.42 Min	2.66 Min
Iol_P:5v	10.41 Min	6.69 Min	5.77 Min
Vio:5v_P	3.89 Min	3.91 Min	3.86 Min
Vio:5v_N	3.87 Min	4.03 Min	3.81 Min
Vio:32v_P	4.10 Max	3.94 Max	4.56 Max
Vio:32v_N	4.44 Max	4.05 Max	4.39 Min
Avd_Vd=10v	3.53 Max	0.98 Max	1.23 Max
Avd:Gain(Db)	0.53 Min	0.62 Min	0.66 Min
Icc:5v	4.17 Max	5.24 Max	1.54 Max
Icc:32v	35.05 Max	58.17 Max	25.32 Max
IIB:5v:P	26.54 Min	68.03 Min	18.60 Min
IIB:5v:N	33.05 Min	71.04 Min	18.01 Min
IIO:5v	14.02 Max	39.07 Max	8.17 Max

Note: Avd, Ioh @5v, Iol@ 5v, and Icc @ 5v test do not require testing at high and low temp per TI Spec.

Device: LM2903
02/04/104

Test Name: Vol:5v:4mA

Test #: 1 - 2
13:35:52

```

=====
Temp:      25 C          108.89mV | X
          C          110.04mV | XXX
Mean:      115.74mV    E  111.19mV |XXXXXXXXXXXX
STD Dev:   4.70mV     L  112.34mV | XXX
          L          113.49mV | XXXX
Mean+3SD:  129.85mV    114.64mV | XXXXXX
Mean-3SD:  101.63mV    B  115.79mV | XXXX
          O          116.94mV | XXXXXX
High Read: 125.00mV    U  118.09mV | XXXXX
Low Read:  108.89mV    N  119.25mV | XXX
          D          120.40mV | XXX
Min Limit: N/A        A  121.55mV | XX
Max Limit: 400.00mV   R  122.70mV |
          Y          123.85mV | XXXXX
          125.00mV | XXXX

Cpk (Max): 20.15
#Reads:    60
-----+-----+-----+-----+
Frequency
  
```

```

-----
Temp:      125C         168.70mV | X
          C          170.85mV |
Mean:      182.34mV    E  172.99mV |XXXXXXXXXX
STD Dev:   8.29mV     L  175.14mV |XXXXXXXXXX
          L          177.28mV | XX
Mean+3SD:  207.22mV    179.43mV | XXXXX
Mean-3SD:  157.46mV    B  181.57mV |XXXXXXXXXX
          O          183.72mV |XXXXXXXXXX
High Read: 198.73mV    U  185.86mV |XXXXXXXXXX
Low Read:  168.70mV    N  188.01mV | XX
          D          190.15mV | X
Min Limit: N/A        A  192.30mV |
Max Limit: 700.00mV   R  194.44mV | XX
          Y          196.59mV |XXXXXXXXXX
          198.73mV | XXX

Cpk (Max): 20.81
#Reads:    60
-----+-----+-----+-----+
Frequency
  
```

```

-----
Temp:      -40C        85.45mV | X
          C          86.20mV | XXXXXX
Mean:      90.09mV    E  86.95mV |XXXXXXXXXX
STD Dev:   3.17mV     L  87.70mV | X
          L          88.45mV | XXXXXX
Mean+3SD:  99.60mV    89.20mV | XXXXXX
Mean-3SD:  80.58mV    B  89.95mV | X
          O          90.70mV | XXXXXX
High Read: 95.95mV    U  91.45mV | XXX
Low Read:  85.45mV    N  92.20mV | XXXX
          D          92.95mV | XX
Min Limit: N/A        A  93.70mV | XX
Max Limit: 700.00mV   R  94.45mV | XXX
          Y          95.20mV |XXXXXXXXXX
          95.95mV | XX

Cpk (Max): 64.12
-----+-----+-----+-----+
  
```

#Reads: 60

Frequency

Device: LM2903
02/04/104

Test Name: Voh:5v:4mA

Test #: 3 - 4
13:35:52

```

=====
Temp:      25 C          4.98 V | XXX
          C            4.98 V |
Mean:      4.99 V      E      4.98 V |
STD Dev:   1.01mV     L      4.98 V |
          L            4.99 V |
Mean+3SD:  4.99 V          4.99 V |
Mean-3SD:  4.98 V      B      4.99 V |
          O            4.99 V |
High Read: 4.99 V      U      4.99 V |
Low Read:  4.98 V     N      4.99 V |
          D            4.99 V |
Min Limit: 4.00 V      A      4.99 V |
Max Limit: N/A        R      4.99 V |
          Y            4.99 V |
          4.99 V |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Cpk (Min): 327.24      +-----+-----+-----+-----+
#Reads:    60                                     Frequency
=====

```

```

=====
Temp:      125C         4.98 V | X
          C            4.98 V |
Mean:      4.99 V      E      4.98 V |
STD Dev:   724.04uV   L      4.98 V |
          L            4.99 V |
Mean+3SD:  4.99 V          4.99 V |
Mean-3SD:  4.99 V      B      4.99 V |
          O            4.99 V |
High Read: 4.99 V      U      4.99 V |
Low Read:  4.98 V     N      4.99 V |
          D            4.99 V |
Min Limit: 4.00 V      A      4.99 V |
Max Limit: N/A        R      4.99 V |
          Y            4.99 V |
          4.99 V |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Cpk (Min): 454.80      +-----+-----+-----+
#Reads:    60                                     Frequency
=====

```

```

=====
Temp:      -40C        4.98 V | XXXX
          C            4.98 V |
Mean:      4.99 V      E      4.98 V |
STD Dev:   1.11mV     L      4.98 V |
          L            4.99 V |
Mean+3SD:  4.99 V          4.99 V |
Mean-3SD:  4.98 V      B      4.99 V |
          O            4.99 V |
High Read: 4.99 V      U      4.99 V |
Low Read:  4.98 V     N      4.99 V |
          D            4.99 V |
Min Limit: 4.00 V      A      4.99 V |
Max Limit: N/A        R      4.99 V |
          Y            4.99 V |
          4.99 V |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Cpk (Min): 295.32      +-----+-----+-----+
#Reads:    60                                     Frequency
=====

```

Device: LM2903
02/04/104

Test Name: Ioh_P:5v

Test #: 5 - 6
13:35:52

```
=====
Temp:      25 C          -349.25pA | X
              C          -319.10pA |
Mean:      -54.81pA    E  -288.96pA |
STD Dev:   58.54pA    L  -258.82pA |
              L          -228.67pA |
Mean+3SD:  120.80pA   -198.53pA |
Mean-3SD: -230.43pA   B  -168.39pA | X
              O          -138.24pA |
High Read:  72.76pA    U  -108.10pA | XXXX
Low Read:  -349.25pA   N  -77.96pA  | XXXXXX
              D          -47.81pA  | XXXXXXXXXXXXXXXXXXXXXXXX
Min Limit: -50.00nA   A  -17.67pA  | XXXXXXXXXXXXXXXXXXXXXXXX
Max Limit:  50.00nA   R   12.47pA  | XXX
              Y          42.62pA  | XXXXXX
              72.76pA  | XX
Cpk (Min): 284.40
#Reads:    60
-----+-----+-----+-----+
Frequency
```

```
-----
Temp:      125C         11.02nA | X
              C         11.96nA | X
Mean:      17.17nA    E   12.91nA | X
STD Dev:   2.69nA    L   13.86nA | XX
              L         14.80nA | XXXXX
Mean+3SD:  25.24nA   15.75nA | XXXXXXXXXXXXX
Mean-3SD:   9.09nA   B   16.70nA | XXXXXXXXXXXXX
              O         17.64nA | XXXXXXXXX
High Read:  24.27nA   U   18.59nA | XXXXXXXXX
Low Read:   11.02nA   N   19.54nA | XXXXXXXXX
              D         20.49nA | XXXXX
Min Limit: -50.00nA   A   21.43nA | XXX
Max Limit:  50.00nA   R   22.38nA | X
              Y         23.33nA |
              24.27nA | XX
Cpk (Max):  4.07
#Reads:    60
-----+-----+-----+-----+
Frequency
```

```
-----
Temp:      -40C        -1.30nA | X
              C        -363.93pA | XX
Mean:      173.29pA    E   574.14pA | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
STD Dev:   1.63nA    L   1.51nA  |
              L         2.45nA  |
Mean+3SD:  5.07nA          3.39nA |
Mean-3SD: -4.72nA   B   4.33nA  | X
              O         5.26nA  |
High Read:  11.83nA   U   6.20nA  |
Low Read:  -1.30nA   N   7.14nA  |
              D         8.08nA  |
Min Limit: -50.00nA   A   9.02nA  |
Max Limit:  50.00nA   R   9.95nA  |
              Y         10.89nA |
              11.83nA | X
Cpk (Max):  10.18
#Reads:    60
-----+-----+-----+-----+
Frequency
```

Device: LM2903
02/04/104

Test Name: Ioh_P:32v

Test #: 7 - 8
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```
=====
Temp:      25 C          -101.86pA | X
              C          -77.96pA |
Mean:      110.11pA    E   -54.05pA |
STD Dev:   78.08pA    L   -30.14pA | X
              L          -6.24pA |
Mean+3SD:  344.36pA          17.67pA |XXXXXXXXXXXXXXXXXX
Mean-3SD: -124.14pA    B   41.58pA |
              O          65.48pA |
High Read: 232.83pA    U   89.39pA |XXXXXXXXXX
Low Read: -101.86pA   N  113.30pA |
              D  137.20pA |XXXXXXXXXXXXXXXXXX
Min Limit: -50.00nA   A  161.11pA |
Max Limit:  50.00nA   R  185.02pA |XXXXXXXXXXXXXXXXXXXX
              Y  208.92pA |
              232.83pA |XXXXXX
Cpk (Max):  212.98    |-----+-----+-----+-----+
#Reads:     60        |                                     Frequency
-----
```

```
Temp:      125C          21.36nA | X
              C          24.74nA |XXX
Mean:      35.46nA    E   28.12nA |XXXXXXXXXXXXXXXXXXXX
STD Dev:   11.76nA   L   31.51nA |XXXXXXXXXXXX
              L   34.89nA |XXXXXXX
Mean+3SD:  70.73nA          38.27nA |XXX
Mean-3SD: 194.13pA   B   41.65nA |XXXXX
              O   45.03nA |X
High Read:  68.70nA   U   48.41nA |XX
Low Read:  21.36nA   N   51.79nA |XXXX
              D   55.17nA |XXX
Min Limit: -50.00nA   A   58.56nA |
Max Limit:  1.00uA   R   61.94nA |XX
              Y   65.32nA |
              68.70nA |XX
Cpk (Min):  2.42    |-----+-----+-----+
#Reads:     60        |                                     Frequency
-----
```

```
Temp:      -40C          -261.93pA | X
              C           3.14nA |XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Mean:      1.38nA    E    6.54nA |X
STD Dev:   6.45nA   L    9.93nA |
              L   13.33nA |
Mean+3SD:  20.72nA          16.73nA |
Mean-3SD: -17.96nA   B   20.13nA |X
              O   23.53nA |
High Read:  47.32nA   U   26.93nA |
Low Read: -261.93pA   N   30.33nA |
              D   33.73nA |
Min Limit: -50.00nA   A   37.13nA |
Max Limit:  1.00uA   R   40.53nA |
              Y   43.92nA |
              47.32nA |X
Cpk (Min):  2.66    |-----+-----+-----+
#Reads:     60        |                                     Frequency
-----
```

Device: LM2903

Test Name: Iol_P:5v

Test #: 9 - 10

Temp:	25 C		24.02mA	XX
		C	24.18mA	XXXX
Mean:	24.82mA	E	24.34mA	XXXXXXXXXXXXXX
STD Dev:	602.50uA	L	24.50mA	XXXXXXX
		L	24.66mA	XXXXXXX
Mean+3SD:	26.63mA		24.82mA	XXX
Mean-3SD:	23.02mA	B	24.99mA	XXX
		O	25.15mA	XXX
High Read:	26.28mA	U	25.31mA	XXX
Low Read:	24.02mA	N	25.47mA	XX
		D	25.63mA	XXXXXXX
Min Limit:	6.00mA	A	25.79mA	XXXXXXX
Max Limit:	N/A	R	25.95mA	
		Y	26.11mA	X
			26.28mA	X
Cpk (Min):	10.41			-----+-----+-----+-----+
#Reads:	60			Frequency

Temp:	125C		15.38mA	X
		C	15.51mA	XXX
Mean:	16.18mA	E	15.65mA	XX
STD Dev:	507.04uA	L	15.78mA	XXXXXXXXXXXXXX
		L	15.91mA	XXXXXXXXXXXXXX
Mean+3SD:	17.70mA		16.05mA	X
Mean-3SD:	14.65mA	B	16.18mA	XXX
		O	16.31mA	XXX
High Read:	17.24mA	U	16.44mA	XXXXXXX
Low Read:	15.38mA	N	16.58mA	X
		D	16.71mA	XXXX
Min Limit:	6.00mA	A	16.84mA	XXXXXXXXXXXXXX
Max Limit:	N/A	R	16.98mA	
		Y	17.11mA	X
			17.24mA	XXX
Cpk (Min):	6.69			-----+-----+-----+-----+
#Reads:	60			Frequency

Temp:	-40C		23.71mA	X
		C	24.01mA	XX
Mean:	26.13mA	E	24.30mA	X
STD Dev:	1.16mA	L	24.59mA	XX
		L	24.89mA	XXXX
Mean+3SD:	29.62mA		25.18mA	XXXX
Mean-3SD:	22.64mA	B	25.48mA	XXXXXX
		O	25.77mA	XXX
High Read:	27.83mA	U	26.07mA	XXXXXX
Low Read:	23.71mA	N	26.36mA	XXXXXX
		D	26.65mA	XXX
Min Limit:	6.00mA	A	26.95mA	XXXXXX
Max Limit:	N/A	R	27.24mA	XXXXXX
		Y	27.54mA	XXX
			27.83mA	XXXXXXXXXXXXXX
Cpk (Min):	5.77			-----+-----+-----+-----+
#Reads:	60			Frequency

```

=====
Temp:      25 C          -1.61mV | X
          C          -1.43mV | X
Mean:     -214.46uV    E   -1.25mV | X
STD Dev:   580.77uV    L   -1.08mV | X
          L   -900.34uV | XXX
Mean+3SD:  1.53mV     -723.93uV | XXXX
Mean-3SD:  -1.96mV    B   -547.51uV | XXXXX
          O   -371.10uV | XXXXXXXXX
High Read: 863.80uV    U   -194.68uV | XXX
Low Read:  -1.61mV    N   -18.27uV | XXXXXXXXXXXXX
          D   158.14uV  | XXXXXXX
Min Limit: -7.00mV    A   334.56uV  | XXX
Max Limit:  7.00mV    R   510.97uV  | XXXXX
          Y   687.39uV  | XXXXXXXX
          863.80uV  | X
Cpk (Min): 3.89
#Reads:    60
          |-----+-----+-----+-----+
          |                                     Frequency
=====

```

```

-----
Temp:      125C         -1.54mV | X
          C          -1.37mV | XX
Mean:     -411.37uV    E   -1.19mV | XX
STD Dev:   561.41uV    L   -1.02mV | XX
          L   -850.97uV | XX
Mean+3SD:  1.27mV     -679.22uV | XXXXXXXXXXXXX
Mean-3SD:  -2.10mV    B   -507.46uV | XXXXXXXXX
          O   -335.70uV | XXXXXXXXX
High Read: 866.60uV    U   -163.95uV | XXXXXX
Low Read:  -1.54mV    N    7.81uV  | XXXXXX
          D   179.57uV  | XXXX
Min Limit: -7.00mV    A   351.33uV  | XX
Max Limit:  7.00mV    R   523.08uV  | X
          Y   694.84uV  | X
          866.60uV  | XXXX
Cpk (Min): 3.91
#Reads:    60
          |-----+-----+-----+-----+
          |                                     Frequency
-----

```

```

-----
Temp:      -55C        -1.82mV | X
          C          -1.63mV |
Mean:     -196.58uV    E   -1.43mV |
STD Dev:   587.33uV    L   -1.24mV |
          L   -1.04mV  | XXX
Mean+3SD:  1.57mV     -848.60uV | XXXX
Mean-3SD:  -1.96mV    B   -653.53uV | XXXXXXX
          O   -458.45uV | XXXXXXXX
High Read: 907.11uV    U   -263.37uV | XXXXXXXXX
Low Read:  -1.82mV    N   -68.29uV  | XXXX
          D   126.79uV  | XXXXXXXXXXXX
Min Limit: -7.00mV    A   321.87uV  | XXXXX
Max Limit:  7.00mV    R   516.95uV  | XXXXX
          Y   712.03uV  | XXXXX
          907.11uV  | XXX
Cpk (Min): 3.86
#Reads:    60
          |-----+-----+-----+-----+
          |                                     Frequency
-----

```

Temp: 25 C -1.66mV | X
C -1.49mV | X
Mean: -279.81uV E -1.31mV |
STD Dev: 578.15uV L -1.13mV | XX
L -957.24uV | XXX
Mean+3SD: 1.45mV -781.05uV | XXXX
Mean-3SD: -2.01mV B -604.86uV | XXXXXX
O -428.67uV | XXXXXXXX
High Read: 804.66uV U -252.48uV | XXXX
Low Read: -1.66mV N -76.29uV | XXXXXXXXXX
D 99.90uV | XXXXXX
Min Limit: -7.00mV A 276.09uV | XXXXX
Max Limit: 7.00mV R 452.28uV | XXX
Y 628.47uV | XXXXXXXX
804.66uV | X
Cpk (Min): 3.87
#Reads: 60
-----+-----+-----+-----+
Frequency

Temp: 125C -1.49mV | X
C -1.32mV | X
Mean: -337.21uV E -1.15mV | XXX
STD Dev: 551.39uV L -976.48uV | XX
L -806.65uV | XX
Mean+3SD: 1.32mV -636.81uV | XXXXXXXXXX
Mean-3SD: -1.99mV B -466.97uV | XXXXXXXXXX
O -297.13uV | XXXXXXXXXX
High Read: 891.74uV U -127.29uV | XXXXX
Low Read: -1.49mV N 42.55uV | XXXXXXXX
D 212.39uV | XXXXX
Min Limit: -7.00mV A 382.23uV | X
Max Limit: 7.00mV R 552.06uV | XX
Y 721.90uV | X
891.74uV | XXXX
Cpk (Min): 4.03
#Reads: 60
-----+-----+-----+-----+
Frequency

Temp: -55C -1.89mV | X
C -1.69mV |
Mean: -236.82uV E -1.49mV |
STD Dev: 591.82uV L -1.30mV | X
L -1.10mV | XX
Mean+3SD: 1.54mV -899.02uV | XXXX
Mean-3SD: -2.01mV B -700.82uV | XXXXXX
O -502.62uV | XXXXXX
High Read: 884.76uV U -304.43uV | XXXXXXXXXX
Low Read: -1.89mV N -106.23uV | XXXXX
D 91.97uV | XXXXXXXXXX
Min Limit: -7.00mV A 290.17uV | XXXX
Max Limit: 7.00mV R 488.36uV | XXXXX
Y 686.56uV | XXXXX
884.76uV | XXX
Cpk (Min): 3.81
#Reads: 60
-----+-----+-----+-----+
Frequency

Device: LM2903 Test Name: Vio:32v_P Test #: 15 - 16
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=====
Temp: 25 C -1.13mV | X

Mean:	10.55uV	E	-947.14uV	
STD Dev:	524.92uV	L	-781.21uV	XX
		L	-615.29uV	X
Mean+3SD:	1.59mV		-449.36uV	XXXX
Mean-3SD:	-1.56mV	B	-283.43uV	XXXX
		O	-117.50uV	XXXXXXXXXX
High Read:	1.04mV	U	48.43uV	XXXXXXXXXX
Low Read:	-1.28mV	N	214.36uV	XXXXXX
		D	380.29uV	XXXXXXX
Min Limit:	-7.00mV	A	546.21uV	XXXXXX
Max Limit:	7.00mV	R	712.14uV	XXXX
		Y	878.07uV	XXXX
			1.04mV	XX
Cpk (Max):	4.44			-+--+--+--+--+--++
#Reads:	60			Frequency

Temp:	125C		-1.03mV	X
		C	-850.00uV	XXX
Mean:	206.04uV	E	-673.00uV	
STD Dev:	559.68uV	L	-496.00uV	XX
		L	-319.00uV	XX
Mean+3SD:	1.89mV		-142.00uV	XXXXXX
Mean-3SD:	-1.47mV	B	35.00uV	XXXXXXXXXXXX
		O	212.00uV	XXXXXXXXXX
High Read:	1.45mV	U	389.00uV	XXXXXXXXXXXX
Low Read:	-1.03mV	N	566.00uV	XXXXXX
		D	743.00uV	XXXXXXX
Min Limit:	-7.00mV	A	920.00uV	XXXXXX
Max Limit:	7.00mV	R	1.10mV	X
		Y	1.27mV	XX
			1.45mV	XXX
Cpk (Max):	4.05			-+--+--+--+--+--++
#Reads:	60			Frequency

Temp:	-55C		-1.79mV	X
		C	-1.62mV	
Mean:	-218.01uV	E	-1.44mV	
STD Dev:	514.67uV	L	-1.26mV	
		L	-1.08mV	XX
Mean+3SD:	1.33mV		-903.66uV	XX
Mean-3SD:	-1.76mV	B	-725.59uV	XXX
		O	-547.52uV	XXXXXXXXXX
High Read:	698.96uV	U	-369.45uV	XXXXXXX
Low Read:	-1.79mV	N	-191.38uV	XXXXXXXXXXXX
		D	-13.32uV	XXXXXXX
Min Limit:	-7.00mV	A	164.75uV	XXXXXXX
Max Limit:	7.00mV	R	342.82uV	XXXXXXX
		Y	520.89uV	XXX
			698.96uV	XXXXXX
Cpk (Min):	4.39			-+--+--+--+--+--++
#Reads:	60			Frequency

Device:	LM2903	Test Name:	Avd_Vd=10v	Test #:	23 - 24
	02/04/104				13:35:52

Temp:	25 C		3.26uV	X
		C	13.01uV	X
Mean:	58.27uV	E	22.75uV	XXXXXX

STD Dev:	32.27uV	L	32.50uV	XXXXXXXXXX
		L	42.24uV	XXXX
Mean+3SD:	155.07uV		51.99uV	XXXX
Mean-3SD:	-38.53uV	B	61.73uV	XXXXXXXXXX
		O	71.48uV	XXXXXXXXXX
High Read:	139.70uV	U	81.22uV	XXXXXXXXXX
Low Read:	3.26uV	N	90.97uV	X
		D	100.72uV	X
Min Limit:	N/A	A	110.46uV	XX
Max Limit:	400.00uV	R	120.21uV	
		Y	129.95uV	XXX
			139.70uV	XX
Cpk (Max):	3.53			-----+-----+-----+-----+
#Reads:	60			Frequency

Temp:	125C		161.59uV	X
		C	177.35uV	XXXXXXXXXX
Mean:	241.29uV	E	193.12uV	XXXXXXXXXX
STD Dev:	54.23uV	L	208.88uV	XXXXXXXXXXXXXX
		L	224.65uV	X
Mean+3SD:	403.97uV		240.41uV	X
Mean-3SD:	78.61uV	B	256.18uV	X
		O	271.95uV	XXXX
High Read:	382.31uV	U	287.71uV	XXXXXXXXXX
Low Read:	161.59uV	N	303.48uV	XXXXXXXXXX
		D	319.24uV	XXXXXXXXXX
Min Limit:	N/A	A	335.01uV	
Max Limit:	400.00uV	R	350.78uV	
		Y	366.54uV	
			382.31uV	X
Cpk (Max):	0.98			-----+-----+-----+-----+
#Reads:	60			Frequency

Temp:	-40C		3.72uV	X
		C	49.93uV	XXXXXXXXXX
Mean:	97.02uV	E	96.13uV	XX
STD Dev:	82.26uV	L	142.33uV	XXXXXXXXXXXXXX
		L	188.53uV	XXX
Mean+3SD:	343.81uV		234.73uV	XX
Mean-3SD:	-149.77uV	B	280.93uV	
		O	327.13uV	
High Read:	650.53uV	U	373.33uV	
Low Read:	3.72uV	N	419.53uV	
		D	465.73uV	
Min Limit:	N/A	A	511.93uV	
Max Limit:	400.00uV	R	558.13uV	
		Y	604.33uV	
			650.53uV	X
Cpk (Max):	1.23			-----+-----+-----+-----+
#Reads:	60			Frequency

Device: LM2903
02/04/104

Test Name: Avd:Gain

Test #: 25 - 26
13:35:52

=====
Temp: 25 C 71.58 DB | XX
C 104.82 DB | XXXXXX
Mean: 217.19 DB E 138.05 DB | XXXXXXXXXXXX
STD Dev: 120.64 DB L 171.29 DB | XXXXXXXXXXXXXXXX
L 204.52 DB | XXXXXXXX
Mean+3SD: 579.10 DB 237.76 DB | XXX
Mean-3SD: -144.72 DB B 270.99 DB | XX
O 304.23 DB | XX
High Read: 536.87 DB U 337.46 DB | XXXXXX
Low Read: 71.58 DB N 370.70 DB | X
D 403.93 DB | XXXX
Min Limit: 25 DB A 437.17 DB |
Max Limit: N/A R 470.40 DB | X
Y 503.64 DB |
536.87 DB | XXX
Cpk (Min): 0.53 |-----+-----+-----+-----+
#Reads: 60 Frequency

Temp: 125C 26.16 DB | X
C 28.71 DB |
Mean: 43.62 DB E 31.26 DB |
STD Dev: 10.00 DB L 33.81 DB | XXXXXXXXXXXXXX
L 36.37 DB | XXXXXXXXXXXXXXXX
Mean+3SD: 73.62 DB 38.92 DB | XXXXXXXX
Mean-3SD: 13.62 DB B 41.47 DB | X
O 44.02 DB | X
High Read: 61.89 DB U 46.57 DB |
Low Read: 26.16 DB N 49.13 DB | XXXX
D 51.68 DB | XXXXXXXXXXXX
Min Limit: 25 DB A 54.23 DB | XXXX
Max Limit: N/A R 56.78 DB | XXX
Y 59.33 DB | XXXX
61.89 DB | XXXX
Cpk (Min): 0.62 |-----+-----+-----+-----+
#Reads: 60 Frequency

Temp: -40C 43.21 DB | X
C 64.47 DB | X
Mean: 123.85 DB E 85.73 DB | XXXXXXXX
STD Dev: 50.13 DB L 106.99 DB | XXXXXXXXXXXXXX
L 128.25 DB | XXXXXXXXXXXXXXXXXXXXXXXX
Mean+3SD: 274.23 DB 149.52 DB | XXXXXXXXXXXXXXXX
Mean-3SD: -26.53 DB B 170.78 DB | X
O 192.04 DB | X
High Read: 340.87 DB U 213.30 DB | XX
Low Read: 43.21 DB N 234.56 DB |
D 255.82 DB |
Min Limit: 25 DB A 277.09 DB | XX
Max Limit: N/A R 298.35 DB |
Y 319.61 DB |
340.87 DB | X
Cpk (Min): 0.66 |-----+-----+-----+-----+
#Reads: 60 Frequency

Device: LM2903
02/04/104

Test Name: Icc:5v

Test #: 27 - 27
13:35:52

=====
Temp: 25 C 366.21uA |XXXX
C 374.93uA
Mean: 472.01uA E 383.65uA
STD Dev: 42.21uA L 392.37uA
L 401.09uA
Mean+3SD: 598.62uA 409.81uA
Mean-3SD: 345.39uA B 418.53uA
O 427.25uA
High Read: 488.28uA U 435.97uA
Low Read: 366.21uA N 444.68uA
D 453.40uA
Min Limit: -1.00mA A 462.12uA
Max Limit: 1.00mA R 470.84uA
Y 479.56uA
488.28uA |XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Cpk (Max): 4.17
#Reads: 30
-----+-----+-----+-----+
Frequency

Temp: 125C 122.07uA |XXXXXX
C 130.79uA
Mean: 219.73uA E 139.51uA
STD Dev: 49.66uA L 148.23uA
L 156.95uA
Mean+3SD: 368.72uA 165.67uA
Mean-3SD: 70.74uA B 174.39uA
O 183.11uA
High Read: 244.14uA U 191.82uA
Low Read: 122.07uA N 200.54uA
D 209.26uA
Min Limit: -1.00mA A 217.98uA
Max Limit: 1.00mA R 226.70uA
Y 235.42uA
244.14uA |XXXXXXXXXXXXXXXXXXXXXXXXXXXX
Cpk (Max): 5.24
#Reads: 30
-----+-----+-----+-----+
Frequency

Temp: -40C 610.35uA |XXXXXXXXXXXXXXXX
C 627.79uA
Mean: 679.52uA E 645.23uA
STD Dev: 69.37uA L 662.67uA
L 680.11uA
Mean+3SD: 887.65uA 697.54uA
Mean-3SD: 471.40uA B 714.98uA
O 732.42uA |XXXXXXXXXXXXXXXX
High Read: 854.49uA U 749.86uA
Low Read: 610.35uA N 767.30uA
D 784.74uA
Min Limit: -1.00mA A 802.18uA
Max Limit: 1.00mA R 819.61uA
Y 837.05uA
854.49uA |X
Cpk (Max): 1.54
#Reads: 30
-----+-----+-----+-----+
Frequency

Device: LM2903
02/04/104

Test Name: Icc:32v

Test #: 28 - 28
13:35:52

Temp:	25 C		640.87uA	XX
		C	645.77uA	
Mean:	664.27uA	E	650.68uA	XXXXXX
STD Dev:	17.46uA	L	655.58uA	
		L	660.49uA	XXXXXXXXXX
Mean+3SD:	716.64uA		665.39uA	XXXXXXX
Mean-3SD:	611.89uA	B	670.30uA	
		O	675.20uA	XXX
High Read:	709.53uA	U	680.11uA	XX
Low Read:	640.87uA	N	685.01uA	
		D	689.92uA	X
Min Limit:	-2.50mA	A	694.82uA	
Max Limit:	2.50mA	R	699.72uA	
		Y	704.63uA	XX
			709.53uA	X
Cpk (Max):	35.05			
#Reads:	30			

-----+-----+-----+-----+
Frequency

Temp:	125C		343.32uA	X
		C	346.59uA	
Mean:	363.67uA	E	349.86uA	
STD Dev:	12.24uA	L	353.13uA	XXXXXXXX
		L	356.40uA	
Mean+3SD:	400.39uA		359.67uA	XXXXXXXXXX
Mean-3SD:	326.94uA	B	362.94uA	
		O	366.21uA	XXXX
High Read:	389.10uA	U	369.48uA	
Low Read:	343.32uA	N	372.75uA	
		D	376.02uA	XXX
Min Limit:	-2.50mA	A	379.29uA	
Max Limit:	2.50mA	R	382.56uA	XXXXXX
		Y	385.83uA	
			389.10uA	X
Cpk (Max):	58.17			
#Reads:	30			

-----+-----+-----+-----+
Frequency

Temp:	-40C		846.86uA	X
		C	853.40uA	
Mean:	879.92uA	E	859.94uA	XX
STD Dev:	21.33uA	L	866.48uA	XXXXXX
		L	873.02uA	XXXXXX
Mean+3SD:	943.91uA		879.56uA	XXXXXX
Mean-3SD:	815.93uA	B	886.10uA	XX
		O	892.64uA	X
High Read:	938.42uA	U	899.18uA	
Low Read:	846.86uA	N	905.72uA	XX
		D	912.26uA	XX
Min Limit:	-2.50mA	A	918.80uA	XX
Max Limit:	2.50mA	R	925.34uA	
		Y	931.88uA	
			938.42uA	X
Cpk (Max):	25.32			
#Reads:	30			

-----+-----+-----+-----+
Frequency

Device: LM2903
02/04/104

Test Name: IIB:5v:P

Test #: 29 - 30
13:35:52

```
=====
Temp:      25 C          -53.87nA | X
           C           -52.96nA |
Mean:      -44.31nA    E   -52.05nA |
STD Dev:    2.58nA    L   -51.13nA |
           L           -50.22nA |
Mean+3SD:  -36.56nA          -49.31nA | XX
Mean-3SD:  -52.06nA    B   -48.40nA | X
           O           -47.48nA | XXX
High Read: -41.10nA    U   -46.57nA | XXXXX
Low Read:  -53.87nA    N   -45.66nA | XXXX
           D           -44.75nA | XXXXXX
Min Limit: -250.00nA   A   -43.83nA | XXX
Max Limit: 250.00nA   R   -42.92nA | XXXXXXXXXXXX
           Y           -42.01nA | XXXXXXXXXXXXXXXXXXXX
           -41.10nA | XXXXXXXX
Cpk (Min): 26.54      |-----+-----+-----+-----+
#Reads:    60                Frequency
-----
```

```
Temp:      125C         -22.76nA | X
           C           -22.47nA |
Mean:      -20.47nA    E   -22.19nA | XXXX
STD Dev:    1.12nA    L   -21.90nA | XXXX
           L           -21.61nA | X
Mean+3SD:  -17.10nA          -21.32nA | XXXXXXXX
Mean-3SD:  -23.85nA    B   -21.04nA | XXXXXXXX
           O           -20.75nA | XX
High Read: -18.74nA    U   -20.46nA |
Low Read:  -22.76nA    N   -20.18nA | XXXXXXXX
           D           -19.89nA | XXXX
Min Limit: -250.00nA   A   -19.60nA | XXXXXXXX
Max Limit: 500.00nA   R   -19.32nA | XXXXXXXX
           Y           -19.03nA | XXXXXXXX
           -18.74nA | XXXX
Cpk (Min): 68.03      |-----+-----+-----+
#Reads:    60                Frequency
-----
```

```
Temp:      -40C         -69.50nA | X
           C           -68.68nA | XX
Mean:      -62.64nA    E   -67.87nA | XX
STD Dev:    3.36nA    L   -67.05nA | X
           L           -66.23nA | XXXXX
Mean+3SD:  -52.56nA          -65.41nA | XXXXX
Mean-3SD:  -72.71nA    B   -64.60nA | X
           O           -63.78nA | XXXXXXXX
High Read: -58.06nA    U   -62.96nA | XXX
Low Read:  -69.50nA    N   -62.15nA | XX
           D           -61.33nA | X
Min Limit: -250.00nA   A   -60.51nA | XXXXXXXX
Max Limit: 500.00nA   R   -59.70nA | XXXXXXXXXXXX
           Y           -58.88nA | XXXXXXXX
           -58.06nA | XXXXXXXX
Cpk (Min): 18.60      |-----+-----+-----+
#Reads:    60                Frequency
-----
```

Device: LM2903
02/04/104

Test Name: IIB:5v:N

Test #: 31 - 32
13:35:52

```
=====
Temp:      25 C          -49.01nA | X
           C           -48.52nA | XXX
Mean:      -44.78nA    E   -48.04nA | X
STD Dev:   2.07nA     L   -47.55nA | XXX
           L           -47.07nA | XXXXX
Mean+3SD:  -38.57nA          -46.58nA | XXX
Mean-3SD:  -50.99nA    B   -46.09nA | XXXX
           O           -45.61nA |
High Read: -42.20nA    U   -45.12nA |
Low Read:  -49.01nA    N   -44.63nA | XXXXXX
           D           -44.15nA | XXXXX
Min Limit: -250.00nA   A   -43.66nA | XXXX
Max Limit: 250.00nA   R   -43.17nA | XXXXX
           Y           -42.69nA | XXXXXXXXXXXX
           Y           -42.20nA | XXXXXXXXXXXXXX
Cpk (Min): 33.05      | -----+-----+-----+-----+
#Reads:    60          |                                     Frequency
-----
```

```
Temp:      125C         -22.29nA | XX
           C           -22.02nA | XXX
Mean:      -20.64nA    E   -21.75nA | XXXXXXXXXXXX
STD Dev:   1.08nA     L   -21.48nA | XXXXX
           L           -21.21nA | XXXX
Mean+3SD:  -17.41nA          -20.94nA | X
Mean-3SD:  -23.87nA    B   -20.67nA | X
           O           -20.40nA | XXXXXX
High Read: -18.51nA    U   -20.13nA | XXXXXXXX
Low Read:  -22.29nA    N   -19.86nA | XXX
           D           -19.59nA | XXXXX
Min Limit: -250.00nA   A   -19.32nA | XXXXXXXX
Max Limit: 500.00nA   R   -19.05nA | XXXX
           Y           -18.78nA | X
           Y           -18.51nA | X
Cpk (Min): 71.04      | -----+-----+-----+
#Reads:    60          |                                     Frequency
-----
```

```
Temp:      -40C         -75.50nA | X
           C           -74.33nA |
Mean:      -64.23nA    E   -73.17nA |
STD Dev:   3.44nA     L   -72.00nA |
           L           -70.84nA |
Mean+3SD:  -53.91nA          -69.67nA |
Mean-3SD:  -74.55nA    B   -68.51nA | XXXX
           O           -67.35nA | XXXXXXXX
High Read: -59.20nA    U   -66.18nA | XXXXXXXXXXXX
Low Read:  -75.50nA    N   -65.02nA | XXXX
           D           -63.85nA | XXX
Min Limit: -250.00nA   A   -62.69nA | XXXXXXXX
Max Limit: 500.00nA   R   -61.53nA | XXXXX
           Y           -60.36nA | XXXXXXXXXXXX
           Y           -59.20nA | XXXXXXXXXXXXXX
Cpk (Min): 18.01      | -----+-----+-----+
#Reads:    60          |                                     Frequency
-----
```


Device: LM2903
02/04/104

Test Name: IIO:5v

Test #: 33 - 34
13:35:52

```
=====
Temp:      25 C          0.00 A |XXXX
           C          629.86pA |XXXXXXXXXXXXXXXXXXXXXXXXX
Mean:      940.55pA    E          1.26nA |XXXXXXXXXXXXXXXXXXXXXXXXX
STD Dev:   1.17nA     L          1.89nA |XXXXXXXXXXXXXXXXXXXX
           L          2.52nA |
Mean+3SD:  4.44nA          3.15nA |
Mean-3SD:  -2.56nA    B          3.78nA |
           O          4.41nA |
High Read:  8.82nA     U          5.04nA |
Low Read:  0.00 A     N          5.67nA |
           D          6.30nA |
Min Limit: -50.00nA  A          6.93nA |
Max Limit:  50.00nA  R          7.56nA |
           Y          8.19nA |
           8.82nA |X
Cpk (Max): 14.02      |-----+-----+-----+
#Reads:    60          |                               Frequency
-----
```

```
Temp:      125C        0.00 A |XXXXXXX
           C          203.71pA |
Mean:      497.66pA    E          407.43pA |XXXXXXXXXXXXXXXXXXXX
STD Dev:   422.36pA    L          611.14pA |XXXXXXXXXXXXXXXXXXXX
           L          814.86pA |XXXXXXXXXXXX
Mean+3SD:  1.76nA          1.02nA |XXXX
Mean-3SD:  -769.41pA  B          1.22nA |XX
           O          1.43nA |
High Read:  2.85nA     U          1.63nA |
Low Read:  0.00 A     N          1.83nA |
           D          2.04nA |
Min Limit: -50.00nA  A          2.24nA |
Max Limit:  50.00nA  R          2.44nA |
           Y          2.65nA |
           2.85nA |X
Cpk (Max): 39.07      |-----+-----+-----+
#Reads:    60          |                               Frequency
-----
```

```
Temp:      -40C       0.00 A |XXXX
           C          779.57pA |XXXXXXXXXXXXXXXXXXXX
Mean:      1.91nA     E          1.56nA |XXXXXXXXXXXX
STD Dev:   1.96nA     L          2.34nA |XXXXXXXXXXXXXXXXXXXX
           L          3.12nA |XXXXXXXXXX
Mean+3SD:  7.80nA          3.90nA |XXXXX
Mean-3SD:  -3.98nA    B          4.68nA |
           O          5.46nA |
High Read: 10.91nA    U          6.24nA |
Low Read:  0.00 A     N          7.02nA |
           D          7.80nA |X
Min Limit: -50.00nA  A          8.58nA |X
Max Limit:  50.00nA  R          9.35nA |
           Y          10.13nA |
           10.91nA |X
Cpk (Max):  8.17      |-----+-----+-----+
#Reads:    60          |                               Frequency
-----
```