1.1

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_INIT_EMS_@_IGG/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_INIT_EMS_@_IGG/1 from: 08.07.97 / 13:30:06
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number : D/C 9610A
Vendor : NSC
: CONTROL 105;108,121,127,128,132(Vin=5V);138-141,158(Vin=0V)
: INITIAL EMS @ IGG PROG1
: 54ACT74 XM-PL-IGG-0035 ISS1 RD 1 1.0 IR 21JUN97 14PIN TTL

Test steps

1. Continuity test	-2.00	...	0.01	V
2. IccH	0.01	...	350.00	uA
3. Functional Test 1	0	...	0	
4. Iil PIN 1	-100.0	...	100.0	nA
5. Iil PIN 2	-100.0	...	100.0	nA
6. Iil PIN 3	-100.0	...	100.0	nA
7. Iil PIN 4	-100.0	...	100.0	nA
8. Iil PIN 10	-100.0	...	100.0	nA
9. Iil PIN 11	-100.0	...	100.0	nA
10. Iil PIN 12	-100.0	...	100.0	nA
11. Iil PIN 13	-100.0	...	100.0	nA
12. Iih PIN 1	-100.0	...	100.0	nA
13. Iih PIN 2	-100.0	...	100.0	nA
14. Iih PIN 3	-100.0	...	100.0	nA
15. Iih PIN 4	-100.00	...	100.00	uA
16. Iih PIN 10	-100.0	...	100.0	nA
17. Iih PIN 11	-100.0	...	100.0	nA
18. Iih PIN 12	-100.0	...	100.0	nA
19. Iih PIN 13	-100.0	...	100.0	nA
20. Vol1 PIN 5	0.1	...	100.0	mV
21. Vol1 PIN 6	0.1	...	100.0	mV
22. Vol1 PIN 8	0.1	...	100.0	mV
23. Vol1 PIN 9	0.1	...	100.0	mV
24. Vol2 PIN 5	0.1	...	400.0	mV
25. Vol2 PIN 6	0.1	...	400.0	mV
26. Vol2 PIN 8	0.1	...	400.0	mV
27. Vol2 PIN 9	0.1	...	400.0	mV

	105	108	121	127	128	132
1.1 [V]	-0.65	-0.65	-0.65	-0.65	-0.65	-0.64
1.2 [V]	-0.59	-0.59	-0.59	-0.59	-0.59	-0.59
2.1 [uA]	0.07	0.03	0.07	0.04	0.27	0.13
2.2 [uA]	0.07	0.03	0.07	0.04	0.27	0.13
3.1 [ ]	0	0	0	0	0	0
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0
5.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
5.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.1	-0.1	-0.0	-0.0	-0.0	0.0
8.2 [nA]	-0.1	-0.1	-0.0	-0.0	-0.0	0.0
9.1 [nA]	-0.0	0.0	0.0	0.0	0.0	0.0
9.2 [nA]	-0.0	0.0	0.0	0.0	0.0	0.0
10.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	0.0
10.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.1	0.1	0.1	0.0	0.0	0.0
12.2 [nA]	0.1	0.1	0.1	0.0	0.0	0.0
13.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	0.00	0.00	0.00	0.00	0.01	-0.00
15.2 [uA]	0.00	0.00	0.00	0.00	0.01	-0.00
16.1 [nA]	0.1	0.1	0.1	0.1	0.1	0.0
16.2 [nA]	0.1	0.1	0.1	0.1	0.1	0.0
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.3	1.1	1.1	1.1	1.2	1.1
20.2 [mV]	1.3	1.1	1.1	1.1	1.2	1.1
21.1 [mV]	1.2	1.0	1.0	1.0	1.1	1.0
21.2 [mV]	1.2	1.0	1.0	1.0	1.1	1.0
22.1 [mV]	1.2	1.0	1.0	1.0	1.1	1.0
22.2 [mV]	1.2	1.0	1.0	1.0	1.1	1.0
23.1 [mV]	1.9	1.5	1.5	1.5	1.6	1.4
23.2 [mV]	1.9	1.5	1.5	1.5	1.6	1.4
24.1 [mV]	215.7	204.9	211.7	209.9	211.6	218.2
24.2 [mV]	215.7	204.9	211.7	209.9	211.6	218.2
25.1 [mV]	209.7	199.2	205.7	203.7	204.1	214.4
25.2 [mV]	209.7	199.2	205.7	203.7	204.1	214.4
26.1 [mV]	212.1	200.7	205.3	205.4	204.6	214.1
26.2 [mV]	212.1	200.7	205.3	205.4	204.6	214.1
27.1 [mV]	216.5	206.4	211.6	209.9	210.1	220.8
27.2 [mV]	216.5	206.4	211.6	209.9	210.1	220.8

	138	139	140	141	158

1.1 [V]	-0.64	-0.65	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.59	-0.59	-0.59	-0.59
2.1 [uA]	0.26	0.23	0.09	0.19	0.11
2.2 [uA]	0.26	0.23	0.09	0.19	0.11
3.1 [ ]	0	0	0	0	0
3.2 [ ]	0	0	0	0	0
4.1 [nA]	-0.0	-0.0	-0.1	-0.0	-0.1
4.2 [nA]	-0.0	-0.0	-0.1	-0.0	-0.1
5.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0
5.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1
8.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1
9.1 [nA]	0.0	0.0	0.0	0.0	0.0
9.2 [nA]	0.0	0.0	0.0	0.0	0.0
10.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.0	0.0	0.1	0.1
12.2 [nA]	0.0	0.0	0.0	0.1	0.1
13.1 [nA]	0.0	0.0	0.0	0.0	0.1
13.2 [nA]	0.0	0.0	0.0	0.0	0.1
14.1 [nA]	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	0.00	-0.00	-0.00	0.00	0.00
15.2 [uA]	0.00	-0.00	-0.00	0.00	0.00
16.1 [nA]	0.1	0.1	0.1	0.1	0.1
16.2 [nA]	0.1	0.1	0.1	0.1	0.1
17.1 [nA]	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.1	1.1	1.1	1.2	1.1
20.2 [mV]	1.1	1.1	1.1	1.2	1.1
21.1 [mV]	1.0	1.0	1.0	1.1	1.0
21.2 [mV]	1.0	1.0	1.0	1.1	1.0
22.1 [mV]	1.0	1.0	1.0	1.1	1.0
22.2 [mV]	1.0	1.0	1.0	1.1	1.0
23.1 [mV]	1.5	1.4	1.5	1.5	1.4
23.2 [mV]	1.5	1.4	1.5	1.5	1.4
24.1 [mV]	210.0	210.5	213.7	215.5	210.5
24.2 [mV]	210.0	210.5	213.7	215.5	210.5
25.1 [mV]	206.5	207.5	206.9	209.7	205.4
25.2 [mV]	206.5	207.5	206.9	209.7	205.4
26.1 [mV]	205.4	205.1	207.5	210.2	206.2
26.2 [mV]	205.4	205.1	207.5	210.2	206.2
27.1 [mV]	211.3	209.9	211.9	215.6	210.8
27.2 [mV]	211.3	209.9	211.9	215.6	210.8

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_INIT_EMS_@_IGG/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_INIT_EMS_@_IGG/2 from: 08.07.97 / 13:44:08
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number : D/C 9610A
Vendor : NSC
: CONTROL 105;108,121,127,128,132(Vin=5V);138-141,158(Vin=0V)
: INIT EMS @ IGG PROG2
: 54ACT74 XM-PL-IGG-0035 ISS1 RD 2 1.0 IR 21JUN97 14PIN TTL

Test steps

1.	Continuity test	-2.00	...	0.01	V
2.	IccL	0.01	...	350.00	uA
3.	Functional Test 2	0	...	0	
4.	Voh1 PIN 5	5.40	...	5.50	V
5.	Voh1 PIN 6	5.40	...	5.50	V
6.	Voh1 PIN 8	5.40	...	5.50	V
7.	Voh1 PIN 9	5.40	...	5.50	V
8.	Voh2 PIN 5	3.70	...	4.50	V
9.	Voh2 PIN 6	3.70	...	4.50	V
10.	Voh2 PIN 8	3.70	...	4.50	V
11.	Voh2 PIN 9	3.70	...	4.50	V
12.	Voh3 PIN 5	3.85	...	5.50	V
13.	Voh3 PIN 6	3.85	...	5.50	V
14.	Voh3 PIN 8	3.85	...	5.50	V
15.	Voh3 PIN 9	3.85	...	5.50	V
16.	Vol3 PIN 5	0.01	...	1.65	V
17.	Vol3 PIN 6	0.01	...	1.65	V
18.	Vol3 PIN 8	0.01	...	1.65	V
19.	Vol3 PIN 9	0.01	...	1.65	V

	105	108	121	127	128	132
1.1 [V]	-0.64	-0.65	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.59	-0.59	-0.59	-0.59	-0.59
2.1 [uA]	0.11	0.06	0.07	0.03	0.06	0.09
2.2 [uA]	0.11	0.06	0.07	0.03	0.06	0.09
3.1 [ ]	0	0	0	0	0	0
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.44
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.44
6.1 [V]	5.46	5.46	5.46	5.46	5.45	5.46
6.2 [V]	5.46	5.46	5.46	5.46	5.45	5.46
7.1 [V]	5.49	5.50	5.49	5.48	5.49	5.49
7.2 [V]	5.49	5.50	5.49	5.48	5.49	5.49
8.1 [V]	4.14	4.16	4.14	4.15	4.15	4.14
8.2 [V]	4.14	4.16	4.14	4.15	4.15	4.14
9.1 [V]	4.15	4.16	4.15	4.15	4.16	4.15
9.2 [V]	4.15	4.16	4.15	4.15	4.16	4.15
10.1 [V]	4.15	4.16	4.15	4.16	4.15	4.15
10.2 [V]	4.15	4.16	4.15	4.16	4.15	4.15
11.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
11.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
12.1 [V]	4.84	4.86	4.84	4.85	4.85	4.84
12.2 [V]	4.84	4.86	4.84	4.85	4.85	4.84
13.1 [V]	4.77	4.82	4.78	4.80	4.79	4.77
13.2 [V]	4.77	4.82	4.78	4.80	4.79	4.77
14.1 [V]	4.78	4.81	4.80	4.80	4.80	4.79
14.2 [V]	4.78	4.81	4.80	4.80	4.80	4.79
15.1 [V]	4.80	4.84	4.80	4.80	4.80	4.80
15.2 [V]	4.80	4.84	4.80	4.80	4.80	4.80
16.1 [V]	0.40	0.39	0.40	0.40	0.40	0.41
16.2 [V]	0.40	0.39	0.40	0.40	0.40	0.41
17.1 [V]	0.39	0.38	0.39	0.38	0.38	0.40
17.2 [V]	0.39	0.38	0.39	0.38	0.38	0.40
18.1 [V]	0.39	0.38	0.38	0.38	0.38	0.40
18.2 [V]	0.39	0.38	0.38	0.38	0.38	0.40
19.1 [V]	0.40	0.39	0.40	0.39	0.39	0.41
19.2 [V]	0.40	0.39	0.40	0.39	0.39	0.41

	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.59	-0.59	-0.59	-0.59
2.1 [uA]	0.16	0.19	0.43	0.49	0.56
2.2 [uA]	0.16	0.19	0.43	0.49	0.56
3.1 [ ]	0	0	0	0	0
3.2 [ ]	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.45	5.46	5.46	5.46	5.46
6.2 [V]	5.45	5.46	5.46	5.46	5.46
7.1 [V]	5.49	5.48	5.50	5.49	5.49
7.2 [V]	5.49	5.48	5.50	5.49	5.49
8.1 [V]	4.15	4.14	4.15	4.13	4.15
8.2 [V]	4.15	4.14	4.15	4.13	4.15

9.1 [V]	4.15	4.15	4.15	4.14	4.15
9.2 [V]	4.15	4.15	4.15	4.14	4.15
10.1 [V]	4.15	4.15	4.15	4.14	4.15
10.2 [V]	4.15	4.15	4.15	4.14	4.15
11.1 [V]	4.15	4.15	4.15	4.14	4.15
11.2 [V]	4.15	4.15	4.15	4.14	4.15
12.1 [V]	4.85	4.83	4.84	4.83	4.85
12.2 [V]	4.85	4.83	4.84	4.83	4.85
13.1 [V]	4.78	4.77	4.78	4.74	4.80
13.2 [V]	4.78	4.77	4.78	4.74	4.80
14.1 [V]	4.79	4.79	4.79	4.81	4.80
14.2 [V]	4.79	4.79	4.79	4.81	4.80
15.1 [V]	4.79	4.80	4.80	4.78	4.80
15.2 [V]	4.79	4.80	4.80	4.78	4.80
16.1 [V]	0.39	0.40	0.41	0.41	0.39
16.2 [V]	0.39	0.40	0.41	0.41	0.39
17.1 [V]	0.38	0.39	0.39	0.40	0.38
17.2 [V]	0.38	0.39	0.39	0.40	0.38
18.1 [V]	0.38	0.39	0.39	0.40	0.38
18.2 [V]	0.38	0.39	0.39	0.40	0.38
19.1 [V]	0.39	0.40	0.40	0.41	0.39
19.2 [V]	0.39	0.40	0.40	0.41	0.39

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_INIT_EMS_@_RMC/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_INIT_EMS_@_RMC/1 from: 16.07.97 / 09:17:16
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number : D/C 9610A
Vendor : NSC
: CONTROL 105;108,121,127,128,132(Vin=5V);138-141,158(Vin=0V)
: INIT EMS @ RMC PROG1
: 54ACT74 XM-PL-IGG-0035 ISS1 RD 2 1.0 IR 21JUN97 14PIN TTL

Test steps

1.	Continuity test	-2.00	...	0.01 V
2.	IccH	0.01	...	350.00 uA
3.	Functional Test 1	0	...	0
4.	Iil PIN 1	-100.0	...	100.0 nA
5.	Iil PIN 2	-100.0	...	100.0 nA
6.	Iil PIN 3	-100.0	...	100.0 nA
7.	Iil PIN 4	-100.0	...	100.0 nA
8.	Iil PIN 10	-100.0	...	100.0 nA
9.	Iil PIN 11	-100.0	...	100.0 nA
10.	Iil PIN 12	-100.0	...	100.0 nA
11.	Iil PIN 13	-100.0	...	100.0 nA
12.	Iih PIN 1	-100.0	...	100.0 nA
13.	Iih PIN 2	-100.0	...	100.0 nA
14.	Iih PIN 3	-100.0	...	100.0 nA
15.	Iih PIN 4	-100.00	...	100.00 uA
16.	Iih PIN 10	-100.0	...	100.0 nA
17.	Iih PIN 11	-100.0	...	100.0 nA
18.	Iih PIN 12	-100.0	...	100.0 nA
19.	Iih PIN 13	-100.0	...	100.0 nA
20.	Vol1 PIN 5	0.1	...	100.0 mV
21.	Vol1 PIN 6	0.1	...	100.0 mV
22.	Vol1 PIN 8	0.1	...	100.0 mV
23.	Vol1 PIN 9	0.1	...	100.0 mV
24.	Vol2 PIN 5	0.1	...	400.0 mV
25.	Vol2 PIN 6	0.1	...	400.0 mV
26.	Vol2 PIN 8	0.1	...	400.0 mV
27.	Vol2 PIN 9	0.1	...	400.0 mV

	105	108	121	127	128	132
1.1 [V]	-0.65	-0.65	-0.65	-0.65	-0.65	-0.65
1.2 [V]	-0.59	-0.59	-0.59	-0.59	-0.59	-0.59
2.1 [uA]	0.11	0.18	0.18	0.05	0.05	0.02
2.2 [uA]	0.11	0.18	0.18	0.05	0.05	0.02
3.1 [ ]	0	0	0	0	0	0
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.3	-0.2	-0.2	-0.2
4.2 [nA]	-0.1	-0.1	-0.3	-0.2	-0.2	-0.2
5.1 [nA]	-0.1	-0.2	-0.4	-0.3	-0.4	-0.3
5.2 [nA]	-0.1	-0.2	-0.4	-0.3	-0.4	-0.3
6.1 [nA]	-0.0	-0.1	-0.1	0.0	-0.1	-0.1
6.2 [nA]	-0.0	-0.1	-0.1	0.0	-0.1	-0.1
7.1 [nA]	-0.4	-0.3	-0.5	-0.4	-0.8	-0.5
7.2 [nA]	-0.4	-0.3	-0.5	-0.4	-0.8	-0.5
8.1 [nA]	-0.5	-0.7	-1.0	-0.5	-0.8	-0.6
8.2 [nA]	-0.5	-0.7	-1.0	-0.5	-0.8	-0.6
9.1 [nA]	-0.0	-0.1	-0.1	0.0	-0.1	-0.1
9.2 [nA]	-0.0	-0.1	-0.1	0.0	-0.1	-0.1
10.1 [nA]	-0.0	-0.1	-0.1	0.0	-0.1	-0.1
10.2 [nA]	-0.0	-0.1	-0.1	0.0	-0.1	-0.1
11.1 [nA]	-0.2	-0.2	-0.2	-0.1	-0.2	-0.1
11.2 [nA]	-0.2	-0.2	-0.2	-0.1	-0.2	-0.1
12.1 [nA]	0.2	-0.0	0.2	0.2	0.2	0.1
12.2 [nA]	0.2	-0.0	0.2	0.2	0.2	0.1
13.1 [nA]	0.0	0.0	0.1	0.1	0.2	0.1
13.2 [nA]	0.0	0.0	0.1	0.1	0.2	0.1
14.1 [nA]	0.1	-0.0	0.0	0.0	0.1	0.0
14.2 [nA]	0.1	-0.0	0.0	0.0	0.1	0.0
15.1 [uA]	0.01	0.00	0.00	0.00	0.00	-0.00
15.2 [uA]	0.01	0.00	0.00	0.00	0.00	-0.00
16.1 [nA]	0.5	0.5	0.8	0.4	0.7	0.4
16.2 [nA]	0.5	0.5	0.8	0.4	0.7	0.4
17.1 [nA]	0.0	-0.0	0.0	-0.0	0.1	-0.0
17.2 [nA]	0.0	-0.0	0.0	-0.0	0.1	-0.0
18.1 [nA]	0.1	0.1	0.0	0.0	0.2	-0.1
18.2 [nA]	0.1	0.1	0.0	0.0	0.2	-0.1
19.1 [nA]	0.1	0.0	0.0	0.0	0.1	-0.1
19.2 [nA]	0.1	0.0	0.0	0.0	0.1	-0.1
20.1 [mV]	1.1	1.2	1.1	1.1	1.1	1.2
20.2 [mV]	1.1	1.2	1.1	1.1	1.1	1.2
21.1 [mV]	1.0	1.1	1.0	1.0	1.0	1.1
21.2 [mV]	1.0	1.1	1.0	1.0	1.0	1.1
22.1 [mV]	1.0	1.1	1.0	1.0	1.0	1.1
22.2 [mV]	1.0	1.1	1.0	1.0	1.0	1.1
23.1 [mV]	1.5	1.6	1.4	1.4	1.4	1.7
23.2 [mV]	1.5	1.6	1.4	1.4	1.4	1.7
24.1 [mV]	211.4	204.6	210.6	207.9	208.0	218.3
24.2 [mV]	211.4	204.6	210.6	207.9	208.0	218.3
25.1 [mV]	206.0	200.3	204.7	202.2	201.1	214.2
25.2 [mV]	206.0	200.3	204.7	202.2	201.1	214.2
26.1 [mV]	212.4	201.6	204.7	204.3	201.7	214.4
26.2 [mV]	212.4	201.6	204.7	204.3	201.7	214.4
27.1 [mV]	212.5	205.7	210.3	208.0	206.3	220.6
27.2 [mV]	212.5	205.7	210.3	208.0	206.3	220.6

	138	139	140	141	158

1.1 [V]	-0.65	-0.65	-0.65	-0.65	-0.65
1.2 [V]	-0.59	-0.59	-0.59	-0.59	-0.59
2.1 [uA]	0.48	0.15	0.35	0.18	0.25
2.2 [uA]	0.48	0.15	0.35	0.18	0.25
3.1 [ ]	0	0	0	0	0
3.2 [ ]	0	0	0	0	0
4.1 [nA]	-0.2	-0.2	-0.3	-0.4	-0.2
4.2 [nA]	-0.2	-0.2	-0.3	-0.4	-0.2
5.1 [nA]	-0.3	-0.7	-0.8	-1.3	-0.8
5.2 [nA]	-0.3	-0.7	-0.8	-1.3	-0.8
6.1 [nA]	-0.1	-0.1	-0.2	-0.2	-0.2
6.2 [nA]	-0.1	-0.1	-0.2	-0.2	-0.2
7.1 [nA]	-0.4	-1.0	-1.0	-1.3	-1.3
7.2 [nA]	-0.4	-1.0	-1.0	-1.3	-1.3
8.1 [nA]	-0.4	-0.8	-0.5	-0.5	-0.4
8.2 [nA]	-0.4	-0.8	-0.5	-0.5	-0.4
9.1 [nA]	-0.0	0.1	-0.1	-0.1	-0.1
9.2 [nA]	-0.0	0.1	-0.1	-0.1	-0.1
10.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1
10.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1
11.1 [nA]	-0.1	-0.2	-0.2	-0.2	-0.2
11.2 [nA]	-0.1	-0.2	-0.2	-0.2	-0.2
12.1 [nA]	0.1	0.5	0.5	0.5	0.3
12.2 [nA]	0.1	0.5	0.5	0.5	0.3
13.1 [nA]	0.1	0.2	0.1	0.1	0.1
13.2 [nA]	0.1	0.2	0.1	0.1	0.1
14.1 [nA]	0.1	0.2	0.1	0.1	0.0
14.2 [nA]	0.1	0.2	0.1	0.1	0.0
15.1 [uA]	-0.00	-0.00	0.00	0.00	0.00
15.2 [uA]	-0.00	-0.00	0.00	0.00	0.00
16.1 [nA]	0.4	0.6	0.3	0.4	0.4
16.2 [nA]	0.4	0.6	0.3	0.4	0.4
17.1 [nA]	0.1	0.1	-0.0	-0.1	-0.0
17.2 [nA]	0.1	0.1	-0.0	-0.1	-0.0
18.1 [nA]	0.1	0.2	0.1	0.1	0.1
18.2 [nA]	0.1	0.2	0.1	0.1	0.1
19.1 [nA]	0.1	0.0	0.0	-0.0	-0.0
19.2 [nA]	0.1	0.0	0.0	-0.0	-0.0
20.1 [mV]	1.1	1.1	1.2	1.2	1.2
20.2 [mV]	1.1	1.1	1.2	1.2	1.2
21.1 [mV]	1.0	1.0	1.1	1.1	1.1
21.2 [mV]	1.0	1.0	1.1	1.1	1.1
22.1 [mV]	1.0	1.0	1.1	1.1	1.1
22.2 [mV]	1.0	1.0	1.1	1.1	1.1
23.1 [mV]	1.5	1.5	1.6	1.6	1.6
23.2 [mV]	1.5	1.5	1.6	1.6	1.6
24.1 [mV]	207.5	209.9	212.1	213.7	209.8
24.2 [mV]	207.5	209.9	212.1	213.7	209.8
25.1 [mV]	204.5	206.3	205.8	208.6	205.2
25.2 [mV]	204.5	206.3	205.8	208.6	205.2
26.1 [mV]	206.6	204.8	206.8	209.1	207.3
26.2 [mV]	206.6	204.8	206.8	209.1	207.3
27.1 [mV]	209.1	208.9	210.8	214.5	210.7
27.2 [mV]	209.1	208.9	210.8	214.5	210.7

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_INIT_EMS_@_RMC/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_INIT_EMS_@_RMC/2 from: 16.07.97 / 09:22:31
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number : D/C 9610A
Vendor : NSC
: CONTROL 105;108,121,127,128,132(Vin=5V);138-141,158(Vin=0V)
: INIT EMS @ RMC PROG2
: 54ACT74 XM-PL-IGG-0035 ISS1 RD 2 1.0 IR 21JUN97 14PIN TTL

Test steps

1.	Continuity test	-2.00	...	0.01	V
2.	IccL	0.01	...	350.00	uA
3.	Functional Test 2	0	...	0	
4.	Voh1 PIN 5	5.40	...	5.50	V
5.	Voh1 PIN 6	5.40	...	5.50	V
6.	Voh1 PIN 8	5.40	...	5.50	V
7.	Voh1 PIN 9	5.40	...	5.50	V
8.	Voh2 PIN 5	3.70	...	4.50	V
9.	Voh2 PIN 6	3.70	...	4.50	V
10.	Voh2 PIN 8	3.70	...	4.50	V
11.	Voh2 PIN 9	3.70	...	4.50	V
12.	Voh3 PIN 5	3.85	...	5.50	V
13.	Voh3 PIN 6	3.85	...	5.50	V
14.	Voh3 PIN 8	3.85	...	5.50	V
15.	Voh3 PIN 9	3.85	...	5.50	V
16.	Vol3 PIN 5	0.01	...	1.65	V
17.	Vol3 PIN 6	0.01	...	1.65	V
18.	Vol3 PIN 8	0.01	...	1.65	V
19.	Vol3 PIN 9	0.01	...	1.65	V

	105	108	121	127	128	132
1.1 [V]	-0.64	-0.65	-0.65	-0.65	-0.65	-0.64
1.2 [V]	-0.58	-0.59	-0.59	-0.59	-0.59	-0.58
2.1 [uA]	0.02	0.25	0.15	0.18	0.35	0.01
2.2 [uA]	0.02	0.25	0.15	0.18	0.35	0.01
3.1 [ ]	0	0	0	0	0	0
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.44	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.44	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.46	5.46	5.46	5.45	5.46
6.2 [V]	5.46	5.46	5.46	5.46	5.45	5.46
7.1 [V]	5.48	5.49	5.49	5.50	5.48	5.49
7.2 [V]	5.48	5.49	5.49	5.50	5.48	5.49
8.1 [V]	4.14	4.16	4.15	4.15	4.15	4.14
8.2 [V]	4.14	4.16	4.15	4.15	4.15	4.14
9.1 [V]	4.15	4.16	4.15	4.15	4.16	4.15
9.2 [V]	4.15	4.16	4.15	4.15	4.16	4.15
10.1 [V]	4.14	4.16	4.15	4.16	4.16	4.15
10.2 [V]	4.14	4.16	4.15	4.16	4.16	4.15
11.1 [V]	4.15	4.16	4.15	4.15	4.16	4.15
11.2 [V]	4.15	4.16	4.15	4.15	4.16	4.15
12.1 [V]	4.84	4.87	4.84	4.85	4.85	4.84
12.2 [V]	4.84	4.87	4.84	4.85	4.85	4.84
13.1 [V]	4.76	4.82	4.79	4.80	4.80	4.77
13.2 [V]	4.76	4.82	4.79	4.80	4.80	4.77
14.1 [V]	4.77	4.81	4.83	4.80	4.80	4.79
14.2 [V]	4.77	4.81	4.83	4.80	4.80	4.79
15.1 [V]	4.78	4.82	4.81	4.80	4.80	4.79
15.2 [V]	4.78	4.82	4.81	4.80	4.80	4.79
16.1 [V]	0.41	0.39	0.39	0.39	0.39	0.41
16.2 [V]	0.41	0.39	0.39	0.39	0.39	0.41
17.1 [V]	0.39	0.38	0.38	0.38	0.38	0.40
17.2 [V]	0.39	0.38	0.38	0.38	0.38	0.40
18.1 [V]	0.40	0.38	0.38	0.38	0.38	0.40
18.2 [V]	0.40	0.38	0.38	0.38	0.38	0.40
19.1 [V]	0.40	0.39	0.39	0.39	0.39	0.41
19.2 [V]	0.40	0.39	0.39	0.39	0.39	0.41

	138	139	140	141	158
1.1 [V]	-0.65	-0.65	-0.64	-0.65	-0.65
1.2 [V]	-0.59	-0.59	-0.59	-0.59	-0.59
2.1 [uA]	0.31	0.38	0.21	0.35	0.55
2.2 [uA]	0.31	0.38	0.21	0.35	0.55
3.1 [ ]	0	0	0	0	0
3.2 [ ]	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.44	5.45	5.45	5.45	5.44
5.2 [V]	5.44	5.45	5.45	5.45	5.44
6.1 [V]	5.45	5.46	5.46	5.49	5.45
6.2 [V]	5.45	5.46	5.46	5.49	5.45
7.1 [V]	5.48	5.48	5.49	5.49	5.48
7.2 [V]	5.48	5.48	5.49	5.49	5.48
8.1 [V]	4.15	4.14	4.14	4.14	4.15
8.2 [V]	4.15	4.14	4.14	4.14	4.15

9.1 [V]	4.15	4.15	4.15	4.14	4.15
9.2 [V]	4.15	4.15	4.15	4.14	4.15
10.1 [V]	4.15	4.15	4.15	4.15	4.15
10.2 [V]	4.15	4.15	4.15	4.15	4.15
11.1 [V]	4.15	4.15	4.14	4.14	4.15
11.2 [V]	4.15	4.15	4.14	4.14	4.15
12.1 [V]	4.85	4.83	4.84	4.83	4.84
12.2 [V]	4.85	4.83	4.84	4.83	4.84
13.1 [V]	4.77	4.78	4.77	4.75	4.77
13.2 [V]	4.77	4.78	4.77	4.75	4.77
14.1 [V]	4.78	4.79	4.78	4.78	4.78
14.2 [V]	4.78	4.79	4.78	4.78	4.78
15.1 [V]	4.79	4.80	4.81	4.78	4.79
15.2 [V]	4.79	4.80	4.81	4.79	4.79
16.1 [V]	0.39	0.40	0.40	0.41	0.40
16.2 [V]	0.39	0.40	0.40	0.41	0.40
17.1 [V]	0.38	0.38	0.39	0.39	0.39
17.2 [V]	0.38	0.38	0.39	0.39	0.39
18.1 [V]	0.38	0.38	0.39	0.39	0.39
18.2 [V]	0.38	0.38	0.39	0.39	0.39
19.1 [V]	0.39	0.39	0.40	0.40	0.40
19.2 [V]	0.39	0.39	0.40	0.40	0.40

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_10_KRAD_0V/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_10_KRAD_0V/1 from: 16.07.97 / 11:06:49
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 138-141,158
: EMS @ 10 KRAD (Vin=0V) PROG1
:

Test steps

1.	Continuity test	-2.00	...	0.01 V
2.	IccH	0.01	...	350.00 uA
3.	Functional Test 1	0	...	0
4.	Iil PIN 1	-100.0	...	100.0 nA
5.	Iil PIN 2	-100.0	...	100.0 nA
6.	Iil PIN 3	-100.0	...	100.0 nA
7.	Iil PIN 4	-100.0	...	100.0 nA
8.	Iil PIN 10	-100.0	...	100.0 nA
9.	Iil PIN 11	-100.0	...	100.0 nA
10.	Iil PIN 12	-100.0	...	100.0 nA
11.	Iil PIN 13	-100.0	...	100.0 nA
12.	Iih PIN 1	-100.0	...	100.0 nA
13.	Iih PIN 2	-100.0	...	100.0 nA
14.	Iih PIN 3	-100.0	...	100.0 nA
15.	Iih PIN 4	-100.00	...	100.00 uA
16.	Iih PIN 10	-100.0	...	100.0 nA
17.	Iih PIN 11	-100.0	...	100.0 nA
18.	Iih PIN 12	-100.0	...	100.0 nA
19.	Iih PIN 13	-100.0	...	100.0 nA
20.	Vol1 PIN 5	0.1	...	100.0 mV
21.	Vol1 PIN 6	0.1	...	100.0 mV
22.	Vol1 PIN 8	0.1	...	100.0 mV
23.	Vol1 PIN 9	0.1	...	100.0 mV
24.	Vol2 PIN 5	0.1	...	400.0 mV
25.	Vol2 PIN 6	0.1	...	400.0 mV
26.	Vol2 PIN 8	0.1	...	400.0 mV
27.	Vol2 PIN 9	0.1	...	400.0 mV

	105	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.46	-0.46	-0.44	-0.45	-0.46
2.1 [uA]	0.06	465.47 F	348.27	994.27 F	577.11 F	641.47 F
2.2 [uA]	0.06	465.47 F	348.27	994.27 F	577.11 F	641.47 F
3.1 [ ]	0	0	0	17 F	0	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
5.1 [nA]	-0.0	-0.0	-0.1	-0.1	-0.0	-0.1
5.2 [nA]	-0.0	-0.0	-0.1	-0.1	-0.0	-0.1
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
9.1 [nA]	0.0	0.0	-0.0	0.0	-0.0	0.0
9.2 [nA]	0.0	0.0	-0.0	0.0	-0.0	0.0
10.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
12.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	-0.00	0.00	-0.00	0.00	0.00	0.00
15.2 [uA]	-0.00	0.00	-0.00	0.00	0.00	0.00
16.1 [nA]	0.0	0.0	0.1	0.1	0.0	0.1
16.2 [nA]	0.0	0.0	0.1	0.1	0.0	0.1
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.1	1.2	1.1	1.4	1.2	1.2
20.2 [mV]	1.1	1.2	1.1	1.4	1.2	1.2
21.1 [mV]	1.0	1.0	1.0	1.3	1.0	1.1
21.2 [mV]	1.0	1.0	1.0	1.3	1.0	1.1
22.1 [mV]	1.0	1.0	1.0	1.2	1.0	1.1
22.2 [mV]	1.0	1.0	1.0	1.2	1.0	1.1
23.1 [mV]	1.4	1.5	1.4	1.8	1.5	1.5
23.2 [mV]	1.4	1.5	1.4	1.8	1.5	1.5
24.1 [mV]	214.3	208.8	210.3	214.3	213.8	209.9
24.2 [mV]	214.3	208.8	210.3	214.3	213.8	209.9
25.1 [mV]	209.2	205.3	206.9	208.2	208.6	205.8
25.2 [mV]	209.2	205.3	206.9	208.2	208.6	205.8
26.1 [mV]	210.2	204.9	205.0	208.6	208.7	205.6
26.2 [mV]	210.2	204.9	205.0	208.6	208.7	205.6
27.1 [mV]	214.8	210.0	209.1	212.2	213.5	209.6
27.2 [mV]	214.8	210.0	209.1	212.2	213.5	209.6

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_10_KRAD_0V/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_10_KRAD_0V/2 from: 16.07.97 / 11:25:19
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 138-141,158
: EMS @ 10 KRAD (Vin=0V) PROG2
:

Test steps

1.	Continuity test	-2.00	...	0.01 V
2.	IccL	0.01	...	350.00 uA
3.	Functional Test 2	0	...	0
4.	Voh1 PIN 5	5.40	...	5.50 V
5.	Voh1 PIN 6	5.40	...	5.50 V
6.	Voh1 PIN 8	5.40	...	5.50 V
7.	Voh1 PIN 9	5.40	...	5.50 V
8.	Voh2 PIN 5	3.70	...	4.50 V
9.	Voh2 PIN 6	3.70	...	4.50 V
10.	Voh2 PIN 8	3.70	...	4.50 V
11.	Voh2 PIN 9	3.70	...	4.50 V
12.	Voh3 PIN 5	3.85	...	5.50 V
13.	Voh3 PIN 6	3.85	...	5.50 V
14.	Voh3 PIN 8	3.85	...	5.50 V
15.	Voh3 PIN 9	3.85	...	5.50 V
16.	Vol3 PIN 5	0.01	...	1.65 V
17.	Vol3 PIN 6	0.01	...	1.65 V
18.	Vol3 PIN 8	0.01	...	1.65 V
19.	Vol3 PIN 9	0.01	...	1.65 V

	105	138	139	140	141	158
1.1 [V]	-0.63	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.47	-0.46	-0.44	-0.45	-0.46
2.1 [uA]	0.33	402.17 F	289.14	976.81 F	515.87 F	602.71 F
2.2 [uA]	0.33	402.17 F	289.14	976.81 F	515.87 F	602.71 F
3.1 [ ]	0	17 F	0	17 F	0	0
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.46	5.46	5.46	5.46	5.46
6.2 [V]	5.46	5.46	5.46	5.46	5.46	5.46
7.1 [V]	5.49	5.49	5.49	5.49	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.49	5.49	5.49
8.1 [V]	4.14	4.14	4.13	4.14	4.13	4.14
8.2 [V]	4.14	4.14	4.13	4.14	4.13	4.14
9.1 [V]	4.14	4.15	4.14	4.14	4.14	4.15
9.2 [V]	4.14	4.15	4.14	4.14	4.14	4.15
10.1 [V]	4.14	4.15	4.15	4.14	4.14	4.15
10.2 [V]	4.14	4.15	4.15	4.14	4.14	4.15
11.1 [V]	4.14	4.14	4.15	4.14	4.14	4.15
11.2 [V]	4.14	4.14	4.15	4.14	4.14	4.15
12.1 [V]	4.83	4.84	4.83	4.83	4.82	4.84
12.2 [V]	4.83	4.84	4.83	4.83	4.82	4.84
13.1 [V]	4.75	4.77	4.76	4.77	4.77	4.77
13.2 [V]	4.75	4.77	4.76	4.77	4.77	4.77
14.1 [V]	4.77	4.78	4.78	4.78	4.81	4.79
14.2 [V]	4.77	4.78	4.78	4.78	4.81	4.79
15.1 [V]	4.80	4.78	4.79	4.82	4.78	4.79
15.2 [V]	4.80	4.78	4.79	4.82	4.78	4.79
16.1 [V]	0.41	0.40	0.40	0.40	0.40	0.40
16.2 [V]	0.41	0.40	0.40	0.40	0.40	0.40
17.1 [V]	0.40	0.39	0.39	0.39	0.39	0.39
17.2 [V]	0.40	0.39	0.39	0.39	0.39	0.39
18.1 [V]	0.40	0.38	0.38	0.39	0.39	0.38
18.2 [V]	0.40	0.38	0.38	0.39	0.39	0.38
19.1 [V]	0.41	0.40	0.39	0.40	0.40	0.39
19.2 [V]	0.41	0.40	0.39	0.40	0.40	0.39

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_15_KRAD_0V/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_15_KRAD_0V/1 from: 16.07.97 / 11:32:55
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 138-141,158
: EMS @ 15 KRAD (Vin=0V) PROG1
:

Test steps

1.	Continuity test	-2.00	...	0.01 V
2.	IccH	0.01	...	350.00 uA
3.	Functional Test 1	0	...	0
4.	Iil PIN 1	-100.0	...	100.0 nA
5.	Iil PIN 2	-100.0	...	100.0 nA
6.	Iil PIN 3	-100.0	...	100.0 nA
7.	Iil PIN 4	-100.0	...	100.0 nA
8.	Iil PIN 10	-100.0	...	100.0 nA
9.	Iil PIN 11	-100.0	...	100.0 nA
10.	Iil PIN 12	-100.0	...	100.0 nA
11.	Iil PIN 13	-100.0	...	100.0 nA
12.	Iih PIN 1	-100.0	...	100.0 nA
13.	Iih PIN 2	-100.0	...	100.0 nA
14.	Iih PIN 3	-100.0	...	100.0 nA
15.	Iih PIN 4	-100.00	...	100.00 uA
16.	Iih PIN 10	-100.0	...	100.0 nA
17.	Iih PIN 11	-100.0	...	100.0 nA
18.	Iih PIN 12	-100.0	...	100.0 nA
19.	Iih PIN 13	-100.0	...	100.0 nA
20.	Vol1 PIN 5	0.1	...	100.0 mV
21.	Vol1 PIN 6	0.1	...	100.0 mV
22.	Vol1 PIN 8	0.1	...	100.0 mV
23.	Vol1 PIN 9	0.1	...	100.0 mV
24.	Vol2 PIN 5	0.1	...	400.0 mV
25.	Vol2 PIN 6	0.1	...	400.0 mV
26.	Vol2 PIN 8	0.1	...	400.0 mV
27.	Vol2 PIN 9	0.1	...	400.0 mV

	105	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.43	-0.43	-0.43	-0.43	-0.43
2.1 [uA]	0.07	1247.23 F	917.99 F	2727.66 F	1612.76 F	1895.93 F
2.2 [uA]	0.07	1247.23 F	917.99 F	2727.66 F	1612.76 F	1895.93 F
3.1 [ ]	0	17 F	0	17 F	0	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
5.1 [nA]	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0
5.2 [nA]	-0.0	-0.0	-0.0	-0.1	-0.0	-0.0
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
9.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
9.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
10.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
12.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	0.00	0.00	0.00	-0.00	0.00	0.00
15.2 [uA]	0.00	0.00	0.00	-0.00	0.00	0.00
16.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
16.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.2	1.4	1.4	1.7	1.6	1.5
20.2 [mV]	1.2	1.4	1.4	1.7	1.6	1.5
21.1 [mV]	1.1	1.2	1.3	1.5	1.5	1.3
21.2 [mV]	1.1	1.2	1.3	1.5	1.5	1.3
22.1 [mV]	1.1	1.2	1.2	1.5	1.5	1.3
22.2 [mV]	1.1	1.2	1.2	1.5	1.5	1.3
23.1 [mV]	1.7	1.7	1.8	2.1	2.1	1.9
23.2 [mV]	1.7	1.7	1.8	2.1	2.1	1.8
24.1 [mV]	216.8	209.2	211.7	213.4	215.7	210.3
24.2 [mV]	216.8	209.2	211.7	213.4	215.7	210.3
25.1 [mV]	211.7	205.6	208.5	207.3	210.8	206.1
25.2 [mV]	211.7	205.6	208.5	207.3	210.8	206.1
26.1 [mV]	213.3	207.4	206.4	208.4	211.0	206.1
26.2 [mV]	213.3	207.4	206.4	208.4	211.0	206.1
27.1 [mV]	217.1	210.5	210.4	211.5	215.6	209.9
27.2 [mV]	217.1	210.5	210.4	211.5	215.6	209.9

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_15_KRAD_0V/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_15_KRAD_0V/2 from: 16.07.97 / 11:43:47
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 138-141,158
: EMS @ 15 KRAD (Vin=0V) PROG2
:

Test steps

1.	Continuity test	-2.00	...	0.01	V
2.	IccL	0.01	...	350.00	uA
3.	Functional Test 2	0	...	0	
4.	Voh1 PIN 5	5.40	...	5.50	V
5.	Voh1 PIN 6	5.40	...	5.50	V
6.	Voh1 PIN 8	5.40	...	5.50	V
7.	Voh1 PIN 9	5.40	...	5.50	V
8.	Voh2 PIN 5	3.70	...	4.50	V
9.	Voh2 PIN 6	3.70	...	4.50	V
10.	Voh2 PIN 8	3.70	...	4.50	V
11.	Voh2 PIN 9	3.70	...	4.50	V
12.	Voh3 PIN 5	3.85	...	5.50	V
13.	Voh3 PIN 6	3.85	...	5.50	V
14.	Voh3 PIN 8	3.85	...	5.50	V
15.	Voh3 PIN 9	3.85	...	5.50	V
16.	Vol3 PIN 5	0.01	...	1.65	V
17.	Vol3 PIN 6	0.01	...	1.65	V
18.	Vol3 PIN 8	0.01	...	1.65	V
19.	Vol3 PIN 9	0.01	...	1.65	V

	105	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.43	-0.43	-0.43	-0.43	-0.43
2.1 [uA]	0.32	1161.55 F	825.81 F	2697.31 F	1538.78 F	1844.55 F
2.2 [uA]	0.32	1161.55 F	825.81 F	2697.31 F	1538.78 F	1844.55 F
3.1 [ ]	0	51 F	0	17 F	51 F	51 F
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.46	5.46	5.46	5.49	5.46
6.2 [V]	5.46	5.46	5.46	5.46	5.49	5.46
7.1 [V]	5.49	5.49	5.49	5.49	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.49	5.49	5.49
8.1 [V]	4.14	4.14	4.13	4.14	4.13	4.14
8.2 [V]	4.14	4.14	4.13	4.14	4.13	4.14
9.1 [V]	4.15	4.15	4.14	4.14	4.14	4.15
9.2 [V]	4.15	4.15	4.14	4.14	4.14	4.15
10.1 [V]	4.15	4.14	4.14	4.14	4.14	4.15
10.2 [V]	4.15	4.14	4.14	4.14	4.14	4.15
11.1 [V]	4.15	4.14	4.15	4.14	4.14	4.14
11.2 [V]	4.15	4.14	4.15	4.14	4.14	4.14
12.1 [V]	4.83	4.84	4.82	4.83	4.82	4.84
12.2 [V]	4.83	4.84	4.82	4.83	4.82	4.84
13.1 [V]	4.76	4.77	4.76	4.77	4.74	4.76
13.2 [V]	4.76	4.77	4.76	4.77	4.74	4.76
14.1 [V]	4.78	4.78	4.78	4.78	4.81	4.78
14.2 [V]	4.78	4.78	4.78	4.78	4.81	4.78
15.1 [V]	4.79	4.78	4.81	4.79	4.77	4.79
15.2 [V]	4.79	4.78	4.81	4.79	4.77	4.79
16.1 [V]	0.40	0.40	0.39	0.40	0.40	0.40
16.2 [V]	0.40	0.40	0.39	0.40	0.40	0.40
17.1 [V]	0.39	0.39	0.39	0.39	0.39	0.39
17.2 [V]	0.39	0.39	0.39	0.39	0.39	0.39
18.1 [V]	0.39	0.39	0.38	0.39	0.39	0.39
18.2 [V]	0.39	0.39	0.38	0.39	0.39	0.39
19.1 [V]	0.40	0.39	0.39	0.40	0.40	0.40
19.2 [V]	0.40	0.39	0.39	0.40	0.40	0.40

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_20_KRAD_0V/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_20_KRAD_0V/1 from: 16.07.97 / 11:50:18
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 138-141,158
: EMS @ 20 KRAD (VIN=0V) PROG1
:

Test steps

1.	Continuity test	-2.00	... 0.01	V
2.	IccH	0.01	... 350.00	uA
3.	Functional Test 1	0	... 0	
4.	Iil PIN 1	-100.0	... 100.0	nA
5.	Iil PIN 2	-100.0	... 100.0	nA
6.	Iil PIN 3	-100.0	... 100.0	nA
7.	Iil PIN 4	-100.0	... 100.0	nA
8.	Iil PIN 10	-100.0	... 100.0	nA
9.	Iil PIN 11	-100.0	... 100.0	nA
10.	Iil PIN 12	-100.0	... 100.0	nA
11.	Iil PIN 13	-100.0	... 100.0	nA
12.	Iih PIN 1	-100.0	... 100.0	nA
13.	Iih PIN 2	-100.0	... 100.0	nA
14.	Iih PIN 3	-100.0	... 100.0	nA
15.	Iih PIN 4	-100.00	... 100.00	uA
16.	Iih PIN 10	-100.0	... 100.0	nA
17.	Iih PIN 11	-100.0	... 100.0	nA
18.	Iih PIN 12	-100.0	... 100.0	nA
19.	Iih PIN 13	-100.0	... 100.0	nA
20.	Vol1 PIN 5	0.1	... 100.0	mV
21.	Vol1 PIN 6	0.1	... 100.0	mV
22.	Vol1 PIN 8	0.1	... 100.0	mV
23.	Vol1 PIN 9	0.1	... 100.0	mV
24.	Vol2 PIN 5	0.1	... 400.0	mV
25.	Vol2 PIN 6	0.1	... 400.0	mV
26.	Vol2 PIN 8	0.1	... 400.0	mV
27.	Vol2 PIN 9	0.1	... 400.0	mV

	105	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.42	-0.42	-0.42	-0.42	-0.42
2.1 [uA]	0.05	2289.95 F	1625.52 F	3273.15 F	2944.79 F	3273.15 F
2.2 [uA]	0.05	2289.95 F	1625.52 F	3273.15 F	2944.79 F	3273.15 F
3.1 [ ]	0	17 F	17 F	17 F	17 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
5.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
5.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
9.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
9.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
10.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
12.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	0.00	-0.00	0.00	0.00	-0.00	0.00
15.2 [uA]	0.00	-0.00	0.00	0.00	-0.00	0.00
16.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
16.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.1	1.6	1.4	2.4	1.7	2.0
20.2 [mV]	1.1	1.6	1.4	2.4	1.7	2.0
21.1 [mV]	1.0	1.4	1.3	2.1	1.5	1.7
21.2 [mV]	1.0	1.4	1.3	2.1	1.5	1.7
22.1 [mV]	1.0	1.4	1.3	2.1	1.5	1.7
22.2 [mV]	1.0	1.4	1.3	2.1	1.5	1.7
23.1 [mV]	1.4	2.0	1.8	2.8	2.1	2.3
23.2 [mV]	1.4	2.0	1.8	2.8	2.1	2.3
24.1 [mV]	214.2	209.2	210.3	214.6	214.1	211.2
24.2 [mV]	214.2	209.2	210.3	214.6	214.1	211.2
25.1 [mV]	209.4	205.5	207.0	208.7	209.1	207.0
25.2 [mV]	209.4	205.5	207.0	208.7	209.1	207.0
26.1 [mV]	210.3	207.8	205.3	209.0	209.0	206.9
26.2 [mV]	210.3	207.8	205.3	209.0	209.0	206.9
27.1 [mV]	215.1	210.4	209.2	212.8	214.5	211.8
27.2 [mV]	215.1	210.4	209.2	212.8	214.5	211.8

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_20_KRAD_0V/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_20_KRAD_0V/2 from: 16.07.97 / 12:01:01
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 138-141,158
: EMS @ 20 KRAD (Vin=0V) PROG2
:

Test steps

1. Continuity test	-2.00	...	0.01	V
2. IccL	0.01	...	350.00	uA
3. Functional Test 2	0	...	0	
4. Voh1 PIN 5	5.40	...	5.50	V
5. Voh1 PIN 6	5.40	...	5.50	V
6. Voh1 PIN 8	5.40	...	5.50	V
7. Voh1 PIN 9	5.40	...	5.50	V
8. Voh2 PIN 5	3.70	...	4.50	V
9. Voh2 PIN 6	3.70	...	4.50	V
10. Voh2 PIN 8	3.70	...	4.50	V
11. Voh2 PIN 9	3.70	...	4.50	V
12. Voh3 PIN 5	3.85	...	5.50	V
13. Voh3 PIN 6	3.85	...	5.50	V
14. Voh3 PIN 8	3.85	...	5.50	V
15. Voh3 PIN 9	3.85	...	5.50	V
16. Vol3 PIN 5	0.01	...	1.65	V
17. Vol3 PIN 6	0.01	...	1.65	V
18. Vol3 PIN 8	0.01	...	1.65	V
19. Vol3 PIN 9	0.01	...	1.65	V

	105	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.42	-0.42	-0.42	-0.42	-0.42
2.1 [uA]	0.04	2191.61 F	1510.74 F	3273.24 F	2861.31 F	3273.24 F
2.2 [uA]	0.04	2191.61 F	1510.74 F	3273.24 F	2861.31 F	3273.24 F
3.1 [ ]	0	17 F	0	51 F	0	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.48	5.46	5.46	5.48	5.46
6.2 [V]	5.46	5.48	5.46	5.46	5.48	5.46
7.1 [V]	5.49	5.49	5.49	5.49	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.49	5.49	5.49
8.1 [V]	4.14	4.14	4.13	4.14	4.13	4.14
8.2 [V]	4.14	4.14	4.13	4.14	4.13	4.14
9.1 [V]	4.15	4.15	4.14	4.14	4.13	4.15
9.2 [V]	4.15	4.15	4.14	4.14	4.13	4.15
10.1 [V]	4.15	4.14	4.14	4.14	4.14	4.14
10.2 [V]	4.15	4.14	4.14	4.14	4.14	4.14
11.1 [V]	4.15	4.14	4.14	4.14	4.14	4.14
11.2 [V]	4.15	4.14	4.14	4.14	4.14	4.14
12.1 [V]	4.84	4.84	4.82	4.83	4.82	4.84
12.2 [V]	4.84	4.84	4.82	4.83	4.82	4.84
13.1 [V]	4.76	4.77	4.76	4.76	4.77	4.76
13.2 [V]	4.76	4.77	4.76	4.76	4.77	4.76
14.1 [V]	4.78	4.77	4.78	4.77	4.81	4.78
14.2 [V]	4.78	4.77	4.78	4.77	4.81	4.78
15.1 [V]	4.79	4.78	4.79	4.80	4.77	4.79
15.2 [V]	4.79	4.78	4.79	4.80	4.77	4.79
16.1 [V]	0.40	0.40	0.40	0.40	0.40	0.40
16.2 [V]	0.40	0.40	0.40	0.40	0.40	0.40
17.1 [V]	0.39	0.39	0.39	0.39	0.39	0.39
17.2 [V]	0.39	0.39	0.39	0.39	0.39	0.39
18.1 [V]	0.39	0.39	0.38	0.39	0.39	0.38
18.2 [V]	0.39	0.39	0.38	0.39	0.39	0.38
19.1 [V]	0.40	0.39	0.39	0.40	0.40	0.39
19.2 [V]	0.40	0.39	0.39	0.40	0.40	0.39

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_25_KRAD_0V/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_25_KRAD_0V/1 from: 16.07.97 / 12:07:25
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 138-141,158
: EMS @ 25 KRAD (Vin=0V) PROG1
:

Test steps

1.	Continuity test	-2.00	... 0.01	V
2.	IccH	0.01	... 350.00	uA
3.	Functional Test 1	0	... 0	
4.	Iil PIN 1	-100.0	... 100.0	nA
5.	Iil PIN 2	-100.0	... 100.0	nA
6.	Iil PIN 3	-100.0	... 100.0	nA
7.	Iil PIN 4	-100.0	... 100.0	nA
8.	Iil PIN 10	-100.0	... 100.0	nA
9.	Iil PIN 11	-100.0	... 100.0	nA
10.	Iil PIN 12	-100.0	... 100.0	nA
11.	Iil PIN 13	-100.0	... 100.0	nA
12.	Iih PIN 1	-100.0	... 100.0	nA
13.	Iih PIN 2	-100.0	... 100.0	nA
14.	Iih PIN 3	-100.0	... 100.0	nA
15.	Iih PIN 4	-100.00	... 100.00	uA
16.	Iih PIN 10	-100.0	... 100.0	nA
17.	Iih PIN 11	-100.0	... 100.0	nA
18.	Iih PIN 12	-100.0	... 100.0	nA
19.	Iih PIN 13	-100.0	... 100.0	nA
20.	Vol1 PIN 5	0.1	... 100.0	mV
21.	Vol1 PIN 6	0.1	... 100.0	mV
22.	Vol1 PIN 8	0.1	... 100.0	mV
23.	Vol1 PIN 9	0.1	... 100.0	mV
24.	Vol2 PIN 5	0.1	... 400.0	mV
25.	Vol2 PIN 6	0.1	... 400.0	mV
26.	Vol2 PIN 8	0.1	... 400.0	mV
27.	Vol2 PIN 9	0.1	... 400.0	mV

	105	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.41	-0.42	-0.41	-0.41	-0.42
2.1 [uA]	0.11	3272.97 F	2425.11 F	3272.97 F	3272.97 F	3272.97 F
2.2 [uA]	0.11	3272.97 F	2425.11 F	3272.97 F	3272.97 F	3272.97 F
3.1 [ ]	0	17 F	17 F	17 F	17 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
5.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
5.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
9.1 [nA]	0.0	0.0	0.0	-0.0	0.0	0.0
9.2 [nA]	0.0	0.0	0.0	-0.0	0.0	0.0
10.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
12.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	0.00	0.00	-0.01	0.00	0.00	-0.00
15.2 [uA]	0.00	0.00	-0.01	0.00	0.00	-0.00
16.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
16.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.1	2.3	1.7	3.0	2.1	2.2
20.2 [mV]	1.1	2.3	1.7	3.0	2.1	2.2
21.1 [mV]	1.0	2.0	1.4	2.6	1.8	1.9
21.2 [mV]	1.0	2.0	1.4	2.6	1.8	1.9
22.1 [mV]	1.0	2.0	1.4	2.6	1.8	1.9
22.2 [mV]	1.0	2.0	1.4	2.6	1.8	1.9
23.1 [mV]	1.5	2.7	2.0	3.4	2.4	2.6
23.2 [mV]	1.5	2.7	2.0	3.4	2.4	2.6
24.1 [mV]	215.4	211.1	210.5	215.4	213.8	210.6
24.2 [mV]	215.4	211.1	210.5	215.4	213.8	210.6
25.1 [mV]	210.9	207.4	207.2	209.2	208.9	206.4
25.2 [mV]	210.8	207.4	207.2	209.2	208.9	206.4
26.1 [mV]	210.9	206.7	205.3	209.5	209.3	206.3
26.2 [mV]	210.9	206.7	205.3	209.5	209.3	206.3
27.1 [mV]	218.5	212.2	209.2	214.2	214.5	212.1
27.2 [mV]	218.5	212.2	209.2	214.2	214.5	212.1

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_25_KRAD_0V/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_25_KRAD_0V/2 from: 16.07.97 / 12:19:23
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 138-141,158
: EMS @ 25 KRAD (Vin=0V) PROG2
:

Test steps

1.	Continuity test	-2.00	...	0.01 V
2.	IccL	0.01	...	350.00 uA
3.	Functional Test 2	0	...	0
4.	Voh1 PIN 5	5.40	...	5.50 V
5.	Voh1 PIN 6	5.40	...	5.50 V
6.	Voh1 PIN 8	5.40	...	5.50 V
7.	Voh1 PIN 9	5.40	...	5.50 V
8.	Voh2 PIN 5	3.70	...	4.50 V
9.	Voh2 PIN 6	3.70	...	4.50 V
10.	Voh2 PIN 8	3.70	...	4.50 V
11.	Voh2 PIN 9	3.70	...	4.50 V
12.	Voh3 PIN 5	3.85	...	5.50 V
13.	Voh3 PIN 6	3.85	...	5.50 V
14.	Voh3 PIN 8	3.85	...	5.50 V
15.	Voh3 PIN 9	3.85	...	5.50 V
16.	Vol3 PIN 5	0.01	...	1.65 V
17.	Vol3 PIN 6	0.01	...	1.65 V
18.	Vol3 PIN 8	0.01	...	1.65 V
19.	Vol3 PIN 9	0.01	...	1.65 V

	105	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.41	-0.41	-0.41	-0.41	-0.42
2.1 [uA]	0.23	3273.17 F	2309.13 F	3273.17 F	3273.17 F	3273.17 F
2.2 [uA]	0.23	3273.17 F	2309.13 F	3273.17 F	3273.17 F	3273.17 F
3.1 [ ]	0	51 F	51 F	17 F	17 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.44	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.44	5.45	5.45
6.1 [V]	5.46	5.46	5.46	5.45	5.48	5.46
6.2 [V]	5.46	5.46	5.46	5.45	5.48	5.46
7.1 [V]	5.49	5.49	5.49	5.48	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.48	5.49	5.49
8.1 [V]	4.14	4.14	4.13	4.13	4.13	4.14
8.2 [V]	4.14	4.14	4.13	4.13	4.13	4.14
9.1 [V]	4.15	4.15	4.14	4.14	4.13	4.14
9.2 [V]	4.15	4.15	4.14	4.14	4.13	4.14
10.1 [V]	4.14	4.14	4.14	4.14	4.14	4.14
10.2 [V]	4.14	4.14	4.14	4.14	4.14	4.14
11.1 [V]	4.15	4.14	4.14	4.13	4.13	4.14
11.2 [V]	4.15	4.14	4.14	4.13	4.13	4.14
12.1 [V]	4.84	4.84	4.82	4.82	4.82	4.83
12.2 [V]	4.84	4.84	4.82	4.82	4.82	4.83
13.1 [V]	4.77	4.76	4.76	4.74	4.76	4.76
13.2 [V]	4.77	4.76	4.76	4.74	4.76	4.76
14.1 [V]	4.78	4.78	4.78	4.76	4.80	4.78
14.2 [V]	4.78	4.78	4.78	4.76	4.80	4.78
15.1 [V]	4.79	4.78	4.78	4.77	4.77	4.80
15.2 [V]	4.79	4.78	4.78	4.77	4.77	4.80
16.1 [V]	0.40	0.40	0.40	0.41	0.41	0.40
16.2 [V]	0.40	0.40	0.40	0.41	0.41	0.40
17.1 [V]	0.39	0.39	0.39	0.39	0.39	0.39
17.2 [V]	0.39	0.39	0.39	0.39	0.39	0.39
18.1 [V]	0.39	0.39	0.38	0.39	0.39	0.39
18.2 [V]	0.39	0.39	0.38	0.39	0.39	0.39
19.1 [V]	0.40	0.40	0.40	0.40	0.41	0.40
19.2 [V]	0.40	0.40	0.40	0.40	0.41	0.40

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_10_KRAD_5V/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_10_KRAD_5V/1 from: 16.07.97 / 09:47:37
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 108,121,127,128,132
: EMS @ 10 KRAD (Vin=5V) PROG1
:

Test steps

1.	Continuity test	-2.00	...	0.01 V
2.	IccH	0.01	...	350.00 uA
3.	Functional Test 1	0	...	0
4.	Iil PIN 1	-100.0	...	100.0 nA
5.	Iil PIN 2	-100.0	...	100.0 nA
6.	Iil PIN 3	-100.0	...	100.0 nA
7.	Iil PIN 4	-100.0	...	100.0 nA
8.	Iil PIN 10	-100.0	...	100.0 nA
9.	Iil PIN 11	-100.0	...	100.0 nA
10.	Iil PIN 12	-100.0	...	100.0 nA
11.	Iil PIN 13	-100.0	...	100.0 nA
12.	Iih PIN 1	-100.0	...	100.0 nA
13.	Iih PIN 2	-100.0	...	100.0 nA
14.	Iih PIN 3	-100.0	...	100.0 nA
15.	Iih PIN 4	-100.00	...	100.00 uA
16.	Iih PIN 10	-100.0	...	100.0 nA
17.	Iih PIN 11	-100.0	...	100.0 nA
18.	Iih PIN 12	-100.0	...	100.0 nA
19.	Iih PIN 13	-100.0	...	100.0 nA
20.	Vol1 PIN 5	0.1	...	100.0 mV
21.	Vol1 PIN 6	0.1	...	100.0 mV
22.	Vol1 PIN 8	0.1	...	100.0 mV
23.	Vol1 PIN 9	0.1	...	100.0 mV
24.	Vol2 PIN 5	0.1	...	400.0 mV
25.	Vol2 PIN 6	0.1	...	400.0 mV
26.	Vol2 PIN 8	0.1	...	400.0 mV
27.	Vol2 PIN 9	0.1	...	400.0 mV

	105	108	121	127 *	128	129
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.45	-0.45	-0.59	-0.46	-0.44
2.1 [uA]	0.35	815.11 F	799.85 F	0.18	668.05 F	772.21 F
2.2 [uA]	0.35	815.11 F	799.85 F	0.18	668.05 F	772.21 F
3.1 [ ]	0	17 F	51 F	17 F	51 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
5.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
5.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1
8.2 [nA]	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1
9.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
9.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
10.1 [nA]	0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.0	0.0	0.0	0.1	0.0
12.2 [nA]	0.0	0.0	0.0	0.0	0.1	0.0
13.1 [nA]	0.1	0.1	0.1	0.1	0.1	0.1
13.2 [nA]	0.1	0.1	0.1	0.1	0.1	0.1
14.1 [nA]	0.1	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.1	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	-0.00	0.00	-0.00	0.00	0.00	-0.01
15.2 [uA]	-0.00	0.00	-0.00	0.00	0.00	-0.01
16.1 [nA]	0.1	0.1	0.1	0.1	0.1	0.1
16.2 [nA]	0.1	0.1	0.1	0.1	0.1	0.1
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.1	1.6	1.7	1.1	1.5	1.7
20.2 [mV]	1.1	1.6	1.7	1.1	1.5	1.7
21.1 [mV]	1.0	1.1	1.2	1.0	1.1	1.3
21.2 [mV]	1.0	1.1	1.2	1.0	1.1	1.3
22.1 [mV]	1.0	1.1	1.2	1.0	1.1	1.3
22.2 [mV]	1.0	1.1	1.2	1.0	1.1	1.3
23.1 [mV]	1.4	1.9	2.0	1.5	1.8	2.1
23.2 [mV]	1.4	1.9	2.0	1.5	1.8	2.1
24.1 [mV]	212.5	204.8	213.4	210.2	210.4	220.7
24.2 [mV]	212.5	204.8	213.4	210.2	210.4	220.7
25.1 [mV]	207.4	199.3	207.5	204.3	203.1	216.1
25.2 [mV]	207.4	199.3	207.5	204.3	203.1	216.1
26.1 [mV]	209.1	201.0	208.3	205.3	202.8	216.4
26.2 [mV]	209.1	201.0	208.3	205.3	202.8	216.4
27.1 [mV]	213.1	205.8	212.8	209.7	208.1	222.6
27.2 [mV]	213.1	205.8	212.8	209.7	208.1	222.6

* S/N° 127 BECAME DETACHED FROM SOCKET DURING 10KRAD EXPOSURE AND HENCE DID NOT RECEIVE FULL DOSE.

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_10_KRAD_5V/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_10_KRAD_5V/2 from: 16.07.97 / 09:58:51
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 108,121,127,128,132
: EMS @ 10 KRAD (Vin=5V) PROG2
:

Test steps

1. Continuity test	-2.00	...	0.01	V
2. IccL	0.01	...	350.00	uA
3. Functional Test 2	0	...	0	
4. Voh1 PIN 5	5.40	...	5.50	V
5. Voh1 PIN 6	5.40	...	5.50	V
6. Voh1 PIN 8	5.40	...	5.50	V
7. Voh1 PIN 9	5.40	...	5.50	V
8. Voh2 PIN 5	3.70	...	4.50	V
9. Voh2 PIN 6	3.70	...	4.50	V
10. Voh2 PIN 8	3.70	...	4.50	V
11. Voh2 PIN 9	3.70	...	4.50	V
12. Voh3 PIN 5	3.85	...	5.50	V
13. Voh3 PIN 6	3.85	...	5.50	V
14. Voh3 PIN 8	3.85	...	5.50	V
15. Voh3 PIN 9	3.85	...	5.50	V
16. Vol3 PIN 5	0.01	...	1.65	V
17. Vol3 PIN 6	0.01	...	1.65	V
18. Vol3 PIN 8	0.01	...	1.65	V
19. Vol3 PIN 9	0.01	...	1.65	V

	105	109	121	127 *	128	132
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.45	-0.46	-0.58	-0.46	-0.44
2.1 [uA]	0.25	733.88 F	732.05 F	0.15	604.78 F	711.68 F
2.2 [uA]	0.25	733.88 F	732.05 F	0.15	604.78 F	711.68 F
3.1 [ ]	0	17 F	0	0	0	0
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.46	5.49	5.46	5.45	5.46
6.2 [V]	5.46	5.46	5.49	5.46	5.45	5.46
7.1 [V]	5.49	5.49	5.49	5.50	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.50	5.49	5.49
8.1 [V]	4.14	4.15	4.14	4.15	4.15	4.14
8.2 [V]	4.14	4.15	4.14	4.15	4.15	4.14
9.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
9.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
10.1 [V]	4.14	4.16	4.15	4.15	4.15	4.15
10.2 [V]	4.14	4.16	4.15	4.15	4.15	4.15
11.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
11.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
12.1 [V]	4.83	4.86	4.84	4.84	4.85	4.84
12.2 [V]	4.83	4.86	4.84	4.84	4.85	4.84
13.1 [V]	4.79	4.82	4.81	4.79	4.79	4.77
13.2 [V]	4.79	4.82	4.81	4.79	4.79	4.77
14.1 [V]	4.78	4.80	4.83	4.80	4.80	4.78
14.2 [V]	4.78	4.80	4.83	4.80	4.80	4.78
15.1 [V]	4.79	4.83	4.80	4.80	4.80	4.81
15.2 [V]	4.79	4.83	4.80	4.80	4.80	4.81
16.1 [V]	0.41	0.39	0.40	0.40	0.40	0.41
16.2 [V]	0.41	0.39	0.40	0.40	0.40	0.41
17.1 [V]	0.40	0.37	0.39	0.38	0.39	0.40
17.2 [V]	0.40	0.37	0.39	0.38	0.39	0.40
18.1 [V]	0.40	0.37	0.38	0.38	0.38	0.40
18.2 [V]	0.40	0.37	0.38	0.38	0.38	0.40
19.1 [V]	0.41	0.38	0.40	0.39	0.40	0.42
19.2 [V]	0.41	0.38	0.40	0.39	0.40	0.42

* S/N° 127 BECAME DETACHED FROM SOCKET DURING 10 KRAD EXPOSURE AND HENCE DID NOT RECEIVE FULL DOSE.

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_15_KRAD_5V/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_15_KRAD_5V/1 from: 16.07.97 / 10:06:28
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 108,121,127,128,132
: EMS @ 15 KRAD (Vin=5V) PROG1
:

Test steps

1.	Continuity test	-2.00	...	0.01 V
2.	IccH	0.01	...	350.00 uA
3.	Functional Test 1	0	...	0
4.	Iil PIN 1	-100.0	...	100.0 nA
5.	Iil PIN 2	-100.0	...	100.0 nA
6.	Iil PIN 3	-100.0	...	100.0 nA
7.	Iil PIN 4	-100.0	...	100.0 nA
8.	Iil PIN 10	-100.0	...	100.0 nA
9.	Iil PIN 11	-100.0	...	100.0 nA
10.	Iil PIN 12	-100.0	...	100.0 nA
11.	Iil PIN 13	-100.0	...	100.0 nA
12.	Iih PIN 1	-100.0	...	100.0 nA
13.	Iih PIN 2	-100.0	...	100.0 nA
14.	Iih PIN 3	-100.0	...	100.0 nA
15.	Iih PIN 4	-100.00	...	100.00 uA
16.	Iih PIN 10	-100.0	...	100.0 nA
17.	Iih PIN 11	-100.0	...	100.0 nA
18.	Iih PIN 12	-100.0	...	100.0 nA
19.	Iih PIN 13	-100.0	...	100.0 nA
20.	Vol1 PIN 5	0.1	...	100.0 mV
21.	Vol1 PIN 6	0.1	...	100.0 mV
22.	Vol1 PIN 8	0.1	...	100.0 mV
23.	Vol1 PIN 9	0.1	...	100.0 mV
24.	Vol2 PIN 5	0.1	...	400.0 mV
25.	Vol2 PIN 6	0.1	...	400.0 mV
26.	Vol2 PIN 8	0.1	...	400.0 mV
27.	Vol2 PIN 9	0.1	...	400.0 mV

	105	108	121	127	128	132
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.36	-0.37	-0.58	-0.38	-0.37
2.1 [uA]	0.16	2371.89 F	2455.69 F	137.93	2080.59 F	2436.23 F
2.2 [uA]	0.16	2371.89 F	2455.69 F	137.93	2080.59 F	2436.23 F
3.1 [ ]	0	17 F	17 F	17 F	0	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
5.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
5.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
9.1 [nA]	0.0	0.0	0.0	-0.0	-0.0	0.0
9.2 [nA]	0.0	0.0	0.0	-0.0	-0.0	0.0
10.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
12.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	-0.00	0.00	-0.00	-0.00	-0.00	-0.00
15.2 [uA]	-0.00	0.00	-0.00	-0.00	-0.00	-0.00
16.1 [nA]	0.0	0.1	0.0	0.0	0.0	0.0
16.2 [nA]	0.0	0.1	0.0	0.0	0.0	0.0
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.1	2.4	2.6	1.2	2.5	2.5
20.2 [mV]	1.1	2.4	2.6	1.2	2.5	2.5
21.1 [mV]	1.0	1.3	1.5	1.0	1.5	1.3
21.2 [mV]	1.0	1.3	1.5	1.0	1.5	1.3
22.1 [mV]	1.0	1.3	1.5	1.0	1.5	1.3
22.2 [mV]	1.0	1.3	1.5	1.0	1.5	1.3
23.1 [mV]	1.5	2.7	3.0	1.5	2.9	2.7
23.2 [mV]	1.5	2.7	3.0	1.5	2.9	2.7
24.1 [mV]	213.7	205.4	214.2	209.9	212.9	219.8
24.2 [mV]	213.7	205.4	214.2	209.9	212.9	219.8
25.1 [mV]	208.6	199.4	207.8	203.8	205.5	214.5
25.2 [mV]	208.6	199.4	207.8	203.8	205.5	214.5
26.1 [mV]	212.1	201.1	206.3	204.5	204.8	215.6
26.2 [mV]	212.1	201.1	206.3	204.5	204.8	215.6
27.1 [mV]	214.2	206.3	213.4	209.1	210.5	221.4
27.2 [mV]	214.2	206.3	213.4	209.1	210.5	221.4

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_15_KRAD_5V/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_15_KRAD_5V/2 from: 16.07.97 / 10:17:50
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 108,121,127,128,132
: EMS @ 15 KRAD (Vin=5V) PR062
:

Test steps

1.	Continuity test	-2.00	...	0.01	V
2.	IccL	0.01	...	350.00	uA
3.	Functional Test 2	0	...	0	
4.	Voh1 PIN 5	5.40	...	5.50	V
5.	Voh1 PIN 6	5.40	...	5.50	V
6.	Voh1 PIN 8	5.40	...	5.50	V
7.	Voh1 PIN 9	5.40	...	5.50	V
8.	Voh2 PIN 5	3.70	...	4.50	V
9.	Voh2 PIN 6	3.70	...	4.50	V
10.	Voh2 PIN 8	3.70	...	4.50	V
11.	Vch2 PIN 9	3.70	...	4.50	V
12.	Voh3 PIN 5	3.85	...	5.50	V
13.	Voh3 PIN 6	3.85	...	5.50	V
14.	Voh3 PIN 8	3.85	...	5.50	V
15.	Voh3 PIN 9	3.85	...	5.50	V
16.	Vol3 PIN 5	0.01	...	1.65	V
17.	Vol3 PIN 6	0.01	...	1.65	V
18.	Vol3 PIN 8	0.01	...	1.65	V
19.	Vol3 PIN 9	0.01	...	1.65	V

	105	108	121	127	128	132
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.36	-0.38	-0.57	-0.38	-0.37
2.1 [uA]	0.18	2272.45 F	2368.82 F	136.25	1987.45 F	2357.25 F
2.2 [uA]	0.18	2272.45 F	2368.82 F	136.25	1987.45 F	2357.25 F
3.1 [ ]	0	17 F	51 F	17 F	0	0
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.46	5.49	5.46	5.46	5.46
6.2 [V]	5.46	5.46	5.49	5.46	5.46	5.46
7.1 [V]	5.49	5.49	5.49	5.49	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.49	5.49	5.49
8.1 [V]	4.15	4.15	4.14	4.14	4.14	4.14
8.2 [V]	4.15	4.15	4.14	4.14	4.14	4.14
9.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
9.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
10.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
10.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
11.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
11.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
12.1 [V]	4.84	4.86	4.83	4.84	4.84	4.84
12.2 [V]	4.84	4.86	4.83	4.84	4.84	4.84
13.1 [V]	4.77	4.82	4.80	4.78	4.80	4.80
13.2 [V]	4.77	4.82	4.80	4.78	4.80	4.80
14.1 [V]	4.79	4.81	4.80	4.79	4.80	4.79
14.2 [V]	4.79	4.81	4.80	4.79	4.80	4.79
15.1 [V]	4.79	4.82	4.81	4.80	4.80	4.80
15.2 [V]	4.79	4.82	4.81	4.80	4.80	4.80
16.1 [V]	0.41	0.39	0.40	0.40	0.40	0.41
16.2 [V]	0.41	0.39	0.40	0.40	0.40	0.41
17.1 [V]	0.39	0.38	0.38	0.38	0.38	0.40
17.2 [V]	0.39	0.38	0.38	0.38	0.38	0.40
18.1 [V]	0.39	0.38	0.38	0.38	0.38	0.40
18.2 [V]	0.39	0.38	0.38	0.38	0.38	0.40
19.1 [V]	0.40	0.39	0.40	0.39	0.39	0.41
19.2 [V]	0.40	0.39	0.40	0.39	0.39	0.41

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_20_KRAD_5V/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_20_KRAD_5V/1 from: 16.07.97 / 10:23:51
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 108,121,127,128,132
: EMS @ 20 KRAD (Vin=5V) PROG1
:

Test steps

1. Continuity test	-2.00	...	0.01	V
2. IccH	0.01	...	350.00	uA
3. Functional Test 1	0	...	0	
4. Iil PIN 1	-100.0	...	100.0	nA
5. Iil PIN 2	-100.0	...	100.0	nA
6. Iil PIN 3	-100.0	...	100.0	nA
7. Iil PIN 4	-100.0	...	100.0	nA
8. Iil PIN 10	-100.0	...	100.0	nA
9. Iil PIN 11	-100.0	...	100.0	nA
10. Iil PIN 12	-100.0	...	100.0	nA
11. Iil PIN 13	-100.0	...	100.0	nA
12. Iih PIN 1	-100.0	...	100.0	nA
13. Iih PIN 2	-100.0	...	100.0	nA
14. Iih PIN 3	-100.0	...	100.0	nA
15. Iih PIN 4	-100.00	...	100.00	uA
16. Iih PIN 10	-100.0	...	100.0	nA
17. Iih PIN 11	-100.0	...	100.0	nA
18. Iih PIN 12	-100.0	...	100.0	nA
19. Iih PIN 13	-100.0	...	100.0	nA
20. Vol1 PIN 5	0.1	...	100.0	mV
21. Vol1 PIN 6	0.1	...	100.0	mV
22. Vol1 PIN 8	0.1	...	100.0	mV
23. Vol1 PIN 9	0.1	...	100.0	mV
24. Vol2 PIN 5	0.1	...	400.0	mV
25. Vol2 PIN 6	0.1	...	400.0	mV
26. Vol2 PIN 8	0.1	...	400.0	mV
27. Vol2 PIN 9	0.1	...	400.0	mV

	105	108	121	127	128	132
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.21	-0.21	-0.43	-0.23	-0.21
2.1 [uA]	0.25	3273.45 F	3273.45 F	1534.85 F	3273.45 F	3273.45 F
2.2 [uA]	0.25	3273.45 F	3273.45 F	1534.85 F	3273.45 F	3273.45 F
3.1 [ ]	0	17 F	17 F	17 F	17 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
5.1 [nA]	-0.1	-0.0	-0.0	-0.1	-0.1	-0.1
5.2 [nA]	-0.1	-0.0	-0.0	-0.1	-0.1	-0.1
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
9.1 [nA]	-0.0	0.0	-0.0	0.0	-0.0	0.0
9.2 [nA]	-0.0	0.0	-0.0	0.0	-0.0	0.0
10.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.1	0.0	0.1	0.1	0.1
12.2 [nA]	0.0	0.1	0.0	0.1	0.1	0.1
13.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	-0.00	-0.00	0.00	-0.00	-0.01	0.00
15.2 [uA]	-0.00	-0.00	0.00	-0.00	-0.01	0.00
16.1 [nA]	0.0	0.0	0.1	0.1	0.1	0.1
16.2 [nA]	0.0	0.0	0.1	0.1	0.1	0.1
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.3	3.9	3.7	1.9	3.3	3.6
20.2 [mV]	1.3	3.9	3.7	1.9	3.3	3.6
21.1 [mV]	1.2	1.9	1.6	1.1	1.5	1.5
21.2 [mV]	1.2	1.9	1.6	1.1	1.5	1.5
22.1 [mV]	1.2	1.9	1.6	1.1	1.5	1.5
22.2 [mV]	1.2	1.9	1.6	1.1	1.5	1.5
23.1 [mV]	1.7	4.2	4.0	2.1	3.5	3.7
23.2 [mV]	1.7	4.2	4.0	2.1	3.5	3.7
24.1 [mV]	216.5	208.6	214.0	209.9	211.8	220.0
24.2 [mV]	216.5	208.6	214.0	209.9	211.8	220.0
25.1 [mV]	211.3	201.7	207.0	203.7	203.2	213.9
25.2 [mV]	211.3	201.7	207.0	203.7	203.2	213.9
26.1 [mV]	211.7	202.6	205.4	204.1	202.4	213.6
26.2 [mV]	211.7	202.6	205.4	204.1	202.4	213.6
27.1 [mV]	216.8	209.1	213.2	208.9	208.9	221.8
27.2 [mV]	216.8	209.1	213.2	208.9	208.9	221.8

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_20_KRAD_5V/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_20_KRAD_5V/2 from: 16.07.97 / 10:35:49
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 108,121,127,128,132
: EMS @ 20 KRAD (Vin=5V) PROG2
:

Test steps

1. Continuity test	-2.00	...	0.01	V
2. IccL	0.01	...	350.00	uA
3. Functional Test 2	0	...	0	
4. Voh1 PIN 5	5.40	...	5.50	V
5. Voh1 PIN 6	5.40	...	5.50	V
6. Voh1 PIN 8	5.40	...	5.50	V
7. Voh1 PIN 9	5.40	...	5.50	V
8. Voh2 PIN 5	3.70	...	4.50	V
9. Voh2 PIN 6	3.70	...	4.50	V
10. Voh2 PIN 8	3.70	...	4.50	V
11. Voh2 PIN 9	3.70	...	4.50	V
12. Voh3 PIN 5	3.85	...	5.50	V
13. Voh3 PIN 6	3.85	...	5.50	V
14. Voh3 PIN 8	3.85	...	5.50	V
15. Voh3 PIN 9	3.85	...	5.50	V
16. Vol3 PIN 5	0.01	...	1.65	V
17. Vol3 PIN 6	0.01	...	1.65	V
18. Vol3 PIN 8	0.01	...	1.65	V
19. Vol3 PIN 9	0.01	...	1.65	V

	105	108	121	127	128	132
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.21	-0.21	-0.43	-0.23	-0.21
2.1 [uA]	0.27	3273.63 F	3273.63 F	1504.36 F	3273.63 F	3273.63 F
2.2 [uA]	0.27	3273.63 F	3273.63 F	1504.36 F	3273.63 F	3273.63 F
3.1 [ ]	0	17 F	51 F	17 F	51 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.46	5.49	5.46	5.46	5.46
6.2 [V]	5.46	5.46	5.49	5.46	5.46	5.46
7.1 [V]	5.49	5.49	5.49	5.49	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.49	5.49	5.49
8.1 [V]	4.14	4.15	4.14	4.14	4.14	4.14
8.2 [V]	4.14	4.15	4.14	4.14	4.14	4.14
9.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
9.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
10.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
10.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
11.1 [V]	4.15	4.15	4.14	4.15	4.15	4.14
11.2 [V]	4.15	4.15	4.14	4.15	4.15	4.14
12.1 [V]	4.84	4.86	4.83	4.84	4.84	4.84
12.2 [V]	4.84	4.86	4.83	4.84	4.84	4.84
13.1 [V]	4.77	4.82	4.80	4.79	4.80	4.77
13.2 [V]	4.77	4.82	4.80	4.79	4.80	4.77
14.1 [V]	4.78	4.80	4.83	4.79	4.80	4.79
14.2 [V]	4.78	4.80	4.83	4.79	4.80	4.79
15.1 [V]	4.81	4.83	4.80	4.80	4.80	4.81
15.2 [V]	4.81	4.83	4.80	4.80	4.80	4.81
16.1 [V]	0.40	0.39	0.40	0.40	0.40	0.41
16.2 [V]	0.40	0.39	0.40	0.40	0.40	0.41
17.1 [V]	0.39	0.38	0.39	0.38	0.38	0.40
17.2 [V]	0.39	0.38	0.39	0.38	0.38	0.40
18.1 [V]	0.39	0.38	0.38	0.38	0.38	0.40
18.2 [V]	0.39	0.38	0.38	0.38	0.38	0.40
19.1 [V]	0.40	0.39	0.40	0.39	0.39	0.41
19.2 [V]	0.40	0.39	0.40	0.39	0.39	0.41

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_25_KRAD_5V/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_25_KRAD_5V/1 from: 16.07.97 / 10:41:33
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 108,121,127,128,132
: EMS @ 25 KRAD (Vin=5V) PROG1
:

Test steps

1.	Continuity test	-2.00	...	0.01 V
2.	IccH	0.01	...	350.00 uA
3.	Functional Test 1	0	...	0
4.	Iil PIN 1	-100.0	...	100.0 nA
5.	Iil PIN 2	-100.0	...	100.0 nA
6.	Iil PIN 3	-100.0	...	100.0 nA
7.	Iil PIN 4	-100.0	...	100.0 nA
8.	Iil PIN 10	-100.0	...	100.0 nA
9.	Iil PIN 11	-100.0	...	100.0 nA
10.	Iil PIN 12	-100.0	...	100.0 nA
11.	Iil PIN 13	-100.0	...	100.0 nA
12.	Iih PIN 1	-100.0	...	100.0 nA
13.	Iih PIN 2	-100.0	...	100.0 nA
14.	Iih PIN 3	-100.0	...	100.0 nA
15.	Iih PIN 4	-100.00	...	100.00 uA
16.	Iih PIN 10	-100.0	...	100.0 nA
17.	Iih PIN 11	-100.0	...	100.0 nA
18.	Iih PIN 12	-100.0	...	100.0 nA
19.	Iih PIN 13	-100.0	...	100.0 nA
20.	Vol1 PIN 5	0.1	...	100.0 mV
21.	Vol1 PIN 6	0.1	...	100.0 mV
22.	Vol1 PIN 8	0.1	...	100.0 mV
23.	Vol1 PIN 9	0.1	...	100.0 mV
24.	Vol2 PIN 5	0.1	...	400.0 mV
25.	Vol2 PIN 6	0.1	...	400.0 mV
26.	Vol2 PIN 8	0.1	...	400.0 mV
27.	Vol2 PIN 9	0.1	...	400.0 mV

	105	108	121	127	128	132
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.13	-0.14	-0.25	-0.15	-0.13
2.1 [uA]	0.22	3273.42 F	3273.42 F	3273.42 F	3273.42 F	3273.42 F
2.2 [uA]	0.22	3273.42 F	3273.42 F	3273.42 F	3273.42 F	3273.42 F
3.1 [ ]	0	17 F	17 F	17 F	17 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
5.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.1	-0.0
5.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.1	-0.0
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
9.1 [nA]	0.0	0.0	0.0	0.0	-0.0	0.0
9.2 [nA]	0.0	0.0	0.0	0.0	-0.0	0.0
10.1 [nA]	-0.0	0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	-0.0	0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.0	0.0	0.0	0.1	0.0
12.2 [nA]	0.0	0.0	0.0	0.0	0.1	0.0
13.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	0.00	0.00	-0.00	-0.00	-0.00	-0.00
15.2 [uA]	0.00	0.00	-0.00	-0.00	-0.00	-0.00
16.1 [nA]	0.0	0.0	0.0	0.1	0.1	0.0
16.2 [nA]	0.0	0.0	0.0	0.1	0.1	0.0
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.2	5.1	4.9	3.2	4.4	5.0
20.2 [mV]	1.2	5.1	4.9	3.2	4.4	5.0
21.1 [mV]	1.1	2.3	1.9	1.4	1.7	1.9
21.2 [mV]	1.1	2.3	1.9	1.4	1.7	1.9
22.1 [mV]	1.1	2.2	1.9	1.4	1.7	1.9
22.2 [mV]	1.1	2.2	1.9	1.4	1.7	1.9
23.1 [mV]	1.6	5.5	5.1	3.2	4.5	5.1
23.2 [mV]	1.6	5.5	5.1	3.2	4.5	5.1
24.1 [mV]	215.0	209.7	215.0	210.9	212.3	222.3
24.2 [mV]	215.0	209.7	215.0	210.9	212.3	222.3
25.1 [mV]	210.0	201.9	206.6	203.9	203.1	215.1
25.2 [mV]	210.0	201.9	206.6	203.9	203.1	215.1
26.1 [mV]	210.5	203.0	205.5	204.4	202.2	215.7
26.2 [mV]	210.5	203.0	205.5	204.4	202.2	215.7
27.1 [mV]	215.5	210.3	214.2	210.0	209.7	223.8
27.2 [mV]	215.5	210.3	214.2	210.0	209.7	223.8

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_EMS_@_25_KRAD_5V/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_EMS_@_25_KRAD_5V/2 from: 16.07.97 / 10:58:01
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number :
Vendor :
: CONTROL 105 ; RAD 108,121,127,128,132
: EMS @ 25 KRAD (Vin=5V) PROG2
:

Test steps

1.	Continuity test	-2.00	...	0.01 V
2.	IccL	0.01	...	350.00 uA
3.	Functional Test 2	0	...	0
4.	Voh1 PIN 5	5.40	...	5.50 V
5.	Voh1 PIN 6	5.40	...	5.50 V
6.	Voh1 PIN 8	5.40	...	5.50 V
7.	Voh1 PIN 9	5.40	...	5.50 V
8.	Voh2 PIN 5	3.70	...	4.50 V
9.	Voh2 PIN 6	3.70	...	4.50 V
10.	Voh2 PIN 8	3.70	...	4.50 V
11.	Voh2 PIN 9	3.70	...	4.50 V
12.	Voh3 PIN 5	3.85	...	5.50 V
13.	Voh3 PIN 6	3.85	...	5.50 V
14.	Voh3 PIN 8	3.85	...	5.50 V
15.	Voh3 PIN 9	3.85	...	5.50 V
16.	Vol3 PIN 5	0.01	...	1.65 V
17.	Vol3 PIN 6	0.01	...	1.65 V
18.	Vol3 PIN 8	0.01	...	1.65 V
19.	Vol3 PIN 9	0.01	...	1.65 V

	105	108	121	127	128	132
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.13	-0.14	-0.25	-0.15	-0.14
2.1 [uA]	0.06	3273.54 F	3273.54 F	3273.54 F	3273.54 F	3273.54 F
2.2 [uA]	0.06	3273.54 F	3273.54 F	3273.54 F	3273.54 F	3273.54 F
3.1 [ ]	0	17 F	17 F	17 F	17 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.46	5.48	5.46	5.46	5.46
6.2 [V]	5.46	5.46	5.48	5.46	5.46	5.46
7.1 [V]	5.49	5.49	5.49	5.49	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.49	5.49	5.49
8.1 [V]	4.14	4.15	4.14	4.14	4.14	4.14
8.2 [V]	4.14	4.15	4.14	4.14	4.14	4.14
9.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
9.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
10.1 [V]	4.15	4.16	4.15	4.15	4.15	4.14
10.2 [V]	4.15	4.16	4.15	4.15	4.15	4.14
11.1 [V]	4.15	4.15	4.14	4.15	4.15	4.14
11.2 [V]	4.15	4.15	4.14	4.15	4.15	4.14
12.1 [V]	4.84	4.85	4.83	4.84	4.84	4.83
12.2 [V]	4.84	4.85	4.83	4.84	4.84	4.83
13.1 [V]	4.77	4.81	4.79	4.78	4.79	4.76
13.2 [V]	4.77	4.81	4.79	4.78	4.79	4.76
14.1 [V]	4.78	4.80	4.79	4.79	4.80	4.78
14.2 [V]	4.78	4.80	4.79	4.79	4.80	4.78
15.1 [V]	4.80	4.82	4.81	4.80	4.79	4.79
15.2 [V]	4.80	4.82	4.81	4.80	4.79	4.79
16.1 [V]	0.40	0.39	0.40	0.40	0.41	0.42
16.2 [V]	0.40	0.39	0.40	0.40	0.41	0.42
17.1 [V]	0.39	0.38	0.38	0.38	0.39	0.40
17.2 [V]	0.39	0.38	0.38	0.38	0.39	0.40
18.1 [V]	0.39	0.38	0.38	0.38	0.38	0.41
18.2 [V]	0.39	0.38	0.38	0.38	0.38	0.41
19.1 [V]	0.40	0.39	0.40	0.39	0.40	0.42
19.2 [V]	0.40	0.39	0.40	0.39	0.40	0.42

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_POST_ANNEAL_EMS/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_POST_ANNEAL_EMS/1 from: 17.07.97 / 15:50:15
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number : D/C 9610A
Vendor : NSC
: CONTROL 105;108,121,127,128,132(Vin=5V);138-141,158(Vin=0V)
: POST ANNEAL EMS PROG1
: 54ACT74 XM-PL-IGG-0035 ISS1 RD 1 1.0 IR 21JUN97 14PINTTL

Test steps

1.	Continuity test	-2.00	0.01	V
2.	IccH	0.01	350.00	uA
3.	Functional Test 1	0	0	
4.	Iil PIN 1	-100.0	100.0	nA
5.	Iil PIN 2	-100.0	100.0	nA
6.	Iil PIN 3	-100.0	100.0	nA
7.	Iil PIN 4	-100.0	100.0	nA
8.	Iil PIN 10	-100.0	100.0	nA
9.	Iil PIN 11	-100.0	100.0	nA
10.	Iil PIN 12	-100.0	100.0	nA
11.	Iil PIN 13	-100.0	100.0	nA
12.	Iih PIN 1	-100.0	100.0	nA
13.	Iih PIN 2	-100.0	100.0	nA
14.	Iih PIN 3	-100.0	100.0	nA
15.	Iih PIN 4	-100.00	100.00	uA
16.	Iih PIN 10	-100.0	100.0	nA
17.	Iih PIN 11	-100.0	100.0	nA
18.	Iih PIN 12	-100.0	100.0	nA
19.	Iih PIN 13	-100.0	100.0	nA
20.	Vol1 PIN 5	0.1	100.0	mV
21.	Vol1 PIN 6	0.1	100.0	mV
22.	Vol1 PIN 8	0.1	100.0	mV
23.	Vol1 PIN 9	0.1	100.0	mV
24.	Vol2 PIN 5	0.1	400.0	mV
25.	Vol2 PIN 6	0.1	400.0	mV
26.	Vol2 PIN 8	0.1	400.0	mV
27.	Vol2 PIN 9	0.1	400.0	mV

	105	108	121	127	128	132
1.1 [V]	-0.65	-0.65	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.16	-0.17	-0.28	-0.19	-0.16
2.1 [uA]	0.31	3273.45 F	3273.45 F	2992.62 F	3273.45 F	3273.45 F
2.2 [uA]	0.31	3273.45 F	3273.45 F	2992.62 F	3273.45 F	3273.45 F
3.1 [ ]	0	17 F	17 F	17 F	17 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
5.1 [nA]	-0.0	-0.0	-0.1	-0.0	-0.1	-0.1
5.2 [nA]	-0.0	-0.0	-0.1	-0.0	-0.1	-0.1
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1
8.2 [nA]	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1
9.1 [nA]	-0.0	0.0	0.0	0.0	0.0	0.0
9.2 [nA]	-0.0	0.0	0.0	0.0	0.0	0.0
10.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.1	0.1	0.1	0.1	0.1
12.2 [nA]	0.0	0.1	0.1	0.1	0.1	0.1
13.1 [nA]	0.0	0.0	0.1	0.1	0.1	0.1
13.2 [nA]	0.0	0.0	0.1	0.1	0.1	0.1
14.1 [nA]	0.0	0.0	0.1	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.1	0.0	0.0	0.0
15.1 [uA]	-0.01	-0.00	0.00	-0.00	-0.00	-0.00
15.2 [uA]	-0.01	-0.00	0.00	-0.00	-0.00	-0.00
16.1 [nA]	0.0	0.1	0.1	0.1	0.1	0.1
16.2 [nA]	0.0	0.1	0.1	0.1	0.1	0.1
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.1	3.8	4.1	2.8	3.8	4.0
20.2 [mV]	1.1	3.8	4.1	2.8	3.8	4.0
21.1 [mV]	1.0	1.6	1.8	1.3	1.8	1.6
21.2 [mV]	1.0	1.6	1.8	1.3	1.8	1.6
22.1 [mV]	1.0	1.6	1.8	1.4	1.8	1.6
22.2 [mV]	1.0	1.6	1.8	1.4	1.8	1.6
23.1 [mV]	1.4	4.1	4.4	2.9	4.0	4.1
23.2 [mV]	1.4	4.1	4.4	2.9	4.0	4.1
24.1 [mV]	211.7	204.8	213.0	209.6	211.7	219.2
24.2 [mV]	211.7	204.8	213.0	209.6	211.7	219.2
25.1 [mV]	207.0	198.0	205.5	203.1	203.7	213.0
25.2 [mV]	207.0	198.0	205.5	203.1	203.7	213.0
26.1 [mV]	207.2	199.2	204.4	203.6	202.8	212.9
26.2 [mV]	207.2	199.2	204.4	203.6	202.8	212.9
27.1 [mV]	219.5	205.6	212.3	208.8	209.2	222.7
27.2 [mV]	219.5	205.6	212.3	208.8	209.2	222.7

	138	139	140	141	158

1.1 [V]	-0.65		-0.65		-0.65		-0.64		-0.65	
1.2 [V]	-0.42		-0.42		-0.42		-0.42		-0.42	
2.1 [uA]	2041.49	F	910.39	F	3273.45	F	2985.89	F	3273.45	F
2.2 [uA]	2041.49	F	910.39	F	3273.45	F	2985.89	F	3273.45	F
3.1 [ ]	17	F	17	F	17	F	17	F	17	F
3.2 [ ]	0		0		0		0		0	
4.1 [nA]	-0.1		-0.1		-0.1		-0.1		-0.1	
4.2 [nA]	-0.1		-0.1		-0.1		-0.1		-0.1	
5.1 [nA]	-0.1		-0.0		-0.0		-0.0		-0.0	
5.2 [nA]	-0.1		-0.0		-0.0		-0.0		-0.0	
6.1 [nA]	-0.0		-0.0		-0.0		-0.0		-0.0	
6.2 [nA]	-0.0		-0.0		-0.0		-0.0		-0.0	
7.1 [nA]	-0.0		-0.0		-0.0		-0.0		-0.0	
7.2 [nA]	-0.0		-0.0		-0.0		-0.0		-0.0	
8.1 [nA]	-0.1		-0.1		-0.0		-0.1		-0.1	
8.2 [nA]	-0.1		-0.1		-0.0		-0.1		-0.1	
9.1 [nA]	0.0		-0.0		0.0		0.0		0.0	
9.2 [nA]	0.0		-0.0		0.0		0.0		0.0	
10.1 [nA]	-0.0		-0.0		-0.0		-0.0		-0.0	
10.2 [nA]	-0.0		-0.0		-0.0		-0.0		-0.0	
11.1 [nA]	-0.0		-0.0		-0.0		-0.0		-0.0	
11.2 [nA]	-0.0		-0.0		-0.0		-0.0		-0.0	
12.1 [nA]	0.1		0.1		0.1		0.1		0.1	
12.2 [nA]	0.1		0.1		0.1		0.1		0.1	
13.1 [nA]	0.1		0.0		0.1		0.1		0.1	
13.2 [nA]	0.1		0.0		0.1		0.1		0.1	
14.1 [nA]	0.0		0.0		0.1		0.1		0.1	
14.2 [nA]	0.0		0.0		0.1		0.1		0.1	
15.1 [uA]	-0.00		-0.00		0.00		0.00		0.00	
15.2 [uA]	-0.00		-0.00		0.00		0.00		0.00	
16.1 [nA]	0.1		0.1		0.1		0.1		0.1	
16.2 [nA]	0.1		0.1		0.1		0.1		0.1	
17.1 [nA]	0.0		0.0		0.0		0.0		0.0	
17.2 [nA]	0.0		0.0		0.0		0.0		0.0	
18.1 [nA]	0.0		0.0		0.0		0.0		0.0	
18.2 [nA]	0.0		0.0		0.0		0.0		0.0	
19.1 [nA]	0.0		0.0		0.0		0.0		0.0	
19.2 [nA]	0.0		0.0		0.0		0.0		0.0	
20.1 [mV]	1.6		1.5		2.5		1.8		2.1	
20.2 [mV]	1.6		1.5		2.5		1.8		2.1	
21.1 [mV]	1.4		1.3		2.1		1.6		1.9	
21.2 [mV]	1.4		1.3		2.1		1.6		1.8	
22.1 [mV]	1.4		1.3		2.1		1.5		1.8	
22.2 [mV]	1.4		1.3		2.1		1.5		1.8	
23.1 [mV]	2.0		1.9		2.8		2.1		2.4	
23.2 [mV]	2.0		1.9		2.8		2.1		2.4	
24.1 [mV]	207.7		210.5		212.7		212.3		209.1	
24.2 [mV]	207.7		210.5		212.7		212.3		209.1	
25.1 [mV]	205.2		207.3		206.4		207.4		205.0	
25.2 [mV]	205.2		207.3		206.4		207.4		205.0	
26.1 [mV]	213.4		205.5		207.1		208.0		205.0	
26.2 [mV]	213.4		205.5		207.1		208.0		205.0	
27.1 [mV]	209.5		209.5		211.3		214.5		210.2	
27.2 [mV]	209.5		209.5		211.3		214.5		210.2	

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_POST_ANNEAL_EMS/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_POST_ANNEAL_EMS/2 from: 17.07.97 / 16:01:09
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number : D/C 9610A
Vendor : NSC
: CONTROL 105;108,121,127,128,132(Vin=5V);138-141,158(Vin=0V)
: POST ANNEAL EMS PROG2
: 54ACT74 XM-PL-IGG-0035 ISS1 RD 2 1.0 IR 21JUN97 14PIN TTL

Test steps

1.	Continuity test	-2.00	...	0.01	V
2.	IccL	0.01	...	350.00	uA
3.	Functional Test 2	0	...	0	
4.	Voh1 PIN 5	5.40	...	5.50	V
5.	Voh1 PIN 6	5.40	...	5.50	V
6.	Voh1 PIN 8	5.40	...	5.50	V
7.	Voh1 PIN 9	5.40	...	5.50	V
8.	Voh2 PIN 5	3.70	...	4.50	V
9.	Voh2 PIN 6	3.70	...	4.50	V
10.	Voh2 PIN 8	3.70	...	4.50	V
11.	Voh2 PIN 9	3.70	...	4.50	V
12.	Voh3 PIN 5	3.85	...	5.50	V
13.	Voh3 PIN 6	3.85	...	5.50	V
14.	Voh3 PIN 8	3.85	...	5.50	V
15.	Voh3 PIN 9	3.85	...	5.50	V
16.	Vol3 PIN 5	0.01	...	1.65	V
17.	Vol3 PIN 6	0.01	...	1.65	V
18.	Vol3 PIN 8	0.01	...	1.65	V
19.	Vol3 PIN 9	0.01	...	1.65	V

	105	108	121	127	128	132
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.58	-0.16	-0.17	-0.28	-0.19	-0.16
2.1 [uA]	0.26	3273.24 F	3273.24 F	2987.77 F	3273.24 F	3273.24 F
2.2 [uA]	0.26	3273.24 F	3273.24 F	2987.77 F	3273.24 F	3273.24 F
3.1 [ ]	0	17 F	17 F	17 F	17 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.46	5.48	5.46	5.46	5.46
6.2 [V]	5.46	5.46	5.48	5.46	5.46	5.46
7.1 [V]	5.49	5.49	5.49	5.49	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.49	5.49	5.49
8.1 [V]	4.14	4.15	4.14	4.14	4.14	4.14
8.2 [V]	4.14	4.15	4.14	4.14	4.14	4.14
9.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
9.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
10.1 [V]	4.14	4.16	4.15	4.15	4.15	4.15
10.2 [V]	4.14	4.16	4.15	4.15	4.15	4.15
11.1 [V]	4.14	4.15	4.14	4.15	4.15	4.14
11.2 [V]	4.14	4.15	4.14	4.15	4.15	4.14
12.1 [V]	4.83	4.85	4.83	4.84	4.84	4.84
12.2 [V]	4.83	4.85	4.83	4.84	4.84	4.84
13.1 [V]	4.75	4.81	4.79	4.78	4.79	4.77
13.2 [V]	4.75	4.81	4.79	4.78	4.79	4.77
14.1 [V]	4.78	4.80	4.83	4.79	4.80	4.79
14.2 [V]	4.78	4.80	4.83	4.79	4.80	4.79
15.1 [V]	4.79	4.81	4.79	4.80	4.80	4.79
15.2 [V]	4.79	4.81	4.79	4.80	4.80	4.79
16.1 [V]	0.41	0.39	0.40	0.39	0.40	0.41
16.2 [V]	0.41	0.39	0.40	0.39	0.40	0.41
17.1 [V]	0.39	0.37	0.38	0.38	0.38	0.40
17.2 [V]	0.39	0.37	0.38	0.38	0.38	0.40
18.1 [V]	0.39	0.38	0.38	0.38	0.38	0.39
18.2 [V]	0.39	0.38	0.38	0.38	0.38	0.39
19.1 [V]	0.41	0.39	0.39	0.39	0.39	0.41
19.2 [V]	0.41	0.39	0.39	0.39	0.39	0.41

	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.42	-0.42	-0.42	-0.42	-0.42
2.1 [uA]	2039.67 F	910.74 F	3273.24 F	2982.57 F	3273.24 F
2.2 [uA]	2039.67 F	910.74 F	3273.24 F	2982.57 F	3273.24 F
3.1 [ ]	17 F	17 F	17 F	17 F	17 F
3.2 [ ]	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.44	5.45	5.44	5.45	5.45
5.2 [V]	5.44	5.45	5.44	5.45	5.45
6.1 [V]	5.45	5.46	5.46	5.48	5.46
6.2 [V]	5.45	5.46	5.46	5.48	5.46
7.1 [V]	5.48	5.49	5.49	5.49	5.49
7.2 [V]	5.48	5.49	5.49	5.49	5.49
8.1 [V]	4.14	4.13	4.13	4.13	4.14
8.2 [V]	4.14	4.13	4.13	4.13	4.14

9.1 [V]	4.14	4.14	4.14	4.14	4.15
9.2 [V]	4.14	4.14	4.14	4.14	4.15
10.1 [V]	4.14	4.14	4.14	4.14	4.14
10.2 [V]	4.14	4.14	4.14	4.14	4.14
11.1 [V]	4.14	4.14	4.14	4.14	4.14
11.2 [V]	4.14	4.14	4.14	4.14	4.14
12.1 [V]	4.84	4.82	4.83	4.82	4.84
12.2 [V]	4.84	4.82	4.83	4.82	4.84
13.1 [V]	4.75	4.75	4.75	4.74	4.76
13.2 [V]	4.75	4.75	4.75	4.74	4.76
14.1 [V]	4.77	4.78	4.77	4.80	4.78
14.2 [V]	4.77	4.78	4.77	4.80	4.78
15.1 [V]	4.78	4.81	4.78	4.77	4.79
15.2 [V]	4.78	4.81	4.78	4.77	4.79
16.1 [V]	0.39	0.40	0.40	0.40	0.40
16.2 [V]	0.39	0.40	0.40	0.40	0.40
17.1 [V]	0.40	0.39	0.39	0.39	0.38
17.2 [V]	0.40	0.39	0.39	0.39	0.38
18.1 [V]	0.39	0.38	0.39	0.39	0.38
18.2 [V]	0.39	0.38	0.39	0.39	0.38
19.1 [V]	0.39	0.39	0.40	0.40	0.39
19.2 [V]	0.39	0.39	0.40	0.40	0.39

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233_54ACT74_FINAL_EMS_5V/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233_54ACT74_FINAL_EMS_5V/1 from: 25.07.97 / 16:02:34
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number : D/C 9610A
Vendor : NSC
: CONTROL 105 : RAD 108,121,127,128,132
: FINAL EMS @ IGG (Vin=5V) PROG1
: 54ACT74 XM-PL-IGG-0035 ISS1 RD 1 1.0 IR 21JUN97 14PIN TTL

Test steps

1. Continuity test	-2.00	...	0.01	V
2. IccH	0.01	...	350.00	uA
3. Functional Test 1	0	...	0	
4. Iil PIN 1	-100.0	...	100.0	nA
5. Iil PIN 2	-100.0	...	100.0	nA
6. Iil PIN 3	-100.0	...	100.0	nA
7. Iil PIN 4	-100.0	...	100.0	nA
8. Iil PIN 10	-100.0	...	100.0	nA
9. Iil PIN 11	-100.0	...	100.0	nA
10. Iil PIN 12	-100.0	...	100.0	nA
11. Iil PIN 13	-100.0	...	100.0	nA
12. Iih PIN 1	-100.0	...	100.0	nA
13. Iih PIN 2	-100.0	...	100.0	nA
14. Iih PIN 3	-100.0	...	100.0	nA
15. Iih PIN 4	-100.00	...	100.00	uA
16. Iih PIN 10	-100.0	...	100.0	nA
17. Iih PIN 11	-100.0	...	100.0	nA
18. Iih PIN 12	-100.0	...	100.0	nA
19. Iih PIN 13	-100.0	...	100.0	nA
20. Vol1 PIN 5	0.1	...	100.0	mV
21. Vol1 PIN 6	0.1	...	100.0	mV
22. Vol1 PIN 8	0.1	...	100.0	mV
23. Vol1 PIN 9	0.1	...	100.0	mV
24. Vol2 PIN 5	0.1	...	400.0	mV
25. Vol2 PIN 6	0.1	...	400.0	mV
26. Vol2 PIN 8	0.1	...	400.0	mV
27. Vol2 PIN 9	0.1	...	400.0	mV

	105	108	121	127	128	132
1.1 [V]	-0.65	-0.65	-0.65	-0.65	-0.65	-0.65
1.2 [V]	-0.59	-0.58	-0.58	-0.59	-0.59	-0.58
2.1 [uA]	0.11	0.01	0.11	0.09	0.05	0.12
2.2 [uA]	0.11	0.01	0.11	0.09	0.05	0.12
3.1 [ ]	0	0	0	17 F	0	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.46	5.49	5.46	5.46	5.46
6.2 [V]	5.46	5.46	5.49	5.46	5.46	5.46
7.1 [V]	5.49	5.49	5.49	5.49	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.49	5.49	5.49
8.1 [V]	4.14	4.15	4.14	4.14	4.14	4.14
8.2 [V]	4.14	4.15	4.14	4.14	4.14	4.14
9.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
9.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
10.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
10.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
11.1 [V]	4.15	4.16	4.15	4.15	4.15	4.15
11.2 [V]	4.15	4.16	4.15	4.15	4.15	4.15
12.1 [V]	4.84	4.86	4.84	4.84	4.85	4.84
12.2 [V]	4.84	4.86	4.84	4.84	4.85	4.84
13.1 [V]	4.77	4.82	4.78	4.79	4.79	4.78
13.2 [V]	4.77	4.82	4.78	4.79	4.79	4.78
14.1 [V]	4.79	4.81	4.83	4.80	4.80	4.79
14.2 [V]	4.79	4.81	4.83	4.80	4.80	4.79
15.1 [V]	4.79	4.83	4.82	4.80	4.80	4.80
15.2 [V]	4.79	4.83	4.82	4.80	4.80	4.80
16.1 [V]	0.40	0.38	0.40	0.39	0.40	0.41
16.2 [V]	0.40	0.38	0.40	0.39	0.40	0.41
17.1 [V]	0.39	0.37	0.38	0.38	0.38	0.38
17.2 [V]	0.39	0.37	0.38	0.38	0.38	0.38
18.1 [V]	0.38	0.37	0.38	0.38	0.37	0.38
18.2 [V]	0.38	0.37	0.38	0.38	0.37	0.38
19.1 [V]	0.40	0.38	0.40	0.39	0.39	0.41
19.2 [V]	0.40	0.38	0.40	0.39	0.39	0.41

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233 54ACT74 FINAL EMS 0V/1 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233 54ACT74 FINAL EMS 0V/1 from: 31.07.97 / 15:15:32
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number : D/C 9610A
Vendor : NSC
: CONTROL 105 ; RAD 138-141,158
: FINAL EMS @ IGG (Vin=0V) PROG1
: 54ACT74 XM-PL-IGG-0035 ISS1 RD 1 1.0 IR 21JUN97 14PIN TTL

Test steps

1.	Continuity test	-2.00	...	0.01	V
2.	IccH	0.01	...	350.00	uA
3.	Functional Test 1	0	...	0	
4.	Iil PIN 1	-100.0	...	100.0	nA
5.	Iil PIN 2	-100.0	...	100.0	nA
6.	Iil PIN 3	-100.0	...	100.0	nA
7.	Iil PIN 4	-100.0	...	100.0	nA
8.	Iil PIN 10	-100.0	...	100.0	nA
9.	Iil PIN 11	-100.0	...	100.0	nA
10.	Iil PIN 12	-100.0	...	100.0	nA
11.	Iil PIN 13	-100.0	...	100.0	nA
12.	Iih PIN 1	-100.0	...	100.0	nA
13.	Iih PIN 2	-100.0	...	100.0	nA
14.	Iih PIN 3	-100.0	...	100.0	nA
15.	Iih PIN 4	-100.00	...	100.00	uA
16.	Iih PIN 10	-100.0	...	100.0	nA
17.	Iih PIN 11	-100.0	...	100.0	nA
18.	Iih PIN 12	-100.0	...	100.0	nA
19.	Iih PIN 13	-100.0	...	100.0	nA
20.	Vol1 PIN 5	0.1	...	100.0	mV
21.	Vol1 PIN 6	0.1	...	100.0	mV
22.	Vol1 PIN 8	0.1	...	100.0	mV
23.	Vol1 PIN 9	0.1	...	100.0	mV
24.	Vol2 PIN 5	0.1	...	400.0	mV
25.	Vol2 PIN 6	0.1	...	400.0	mV
26.	Vol2 PIN 8	0.1	...	400.0	mV
27.	Vol2 PIN 9	0.1	...	400.0	mV

	105	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.58	-0.58	-0.42	-0.58	-0.58
2.1 [uA]	0.27	0.03	0.09	2794.63 F	0.13	2.53
2.2 [uA]	0.27	0.03	0.09	2794.63 F	0.13	2.53
3.1 [ ]	0	17 F	17 F	17 F	17 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
4.2 [nA]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
5.1 [nA]	-0.1	-0.0	-0.0	-0.1	-0.0	-0.0
5.2 [nA]	-0.1	-0.0	-0.0	-0.1	-0.0	-0.0
6.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
6.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
7.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
8.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
9.1 [nA]	-0.0	0.0	0.0	0.0	0.0	0.0
9.2 [nA]	-0.0	0.0	0.0	0.0	0.0	0.0
10.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.1 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
11.2 [nA]	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
12.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
13.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
14.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
15.1 [uA]	0.00	-0.00	-0.01	-0.00	0.00	0.00
15.2 [uA]	0.00	-0.00	-0.01	-0.00	0.00	0.00
16.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
16.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
17.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
18.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.1 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
19.2 [nA]	0.0	0.0	0.0	0.0	0.0	0.0
20.1 [mV]	1.1	1.1	1.5	2.2	1.1	1.1
20.2 [mV]	1.1	1.1	1.5	2.2	1.1	1.1
21.1 [mV]	1.0	1.0	1.4	2.1	1.0	1.0
21.2 [mV]	1.0	1.0	1.4	2.1	1.0	1.0
22.1 [mV]	1.0	1.0	1.4	2.0	1.0	1.0
22.2 [mV]	1.0	1.0	1.4	2.0	1.0	1.0
23.1 [mV]	1.5	1.5	2.1	2.8	1.4	1.4
23.2 [mV]	1.5	1.5	2.1	2.8	1.4	1.4
24.1 [mV]	214.0	207.3	215.7	216.2	212.1	208.3
24.2 [mV]	214.0	207.3	215.7	216.2	212.1	208.3
25.1 [mV]	209.5	205.2	213.4	210.6	207.3	204.3
25.2 [mV]	209.5	205.2	213.4	210.6	207.3	204.3
26.1 [mV]	209.4	204.8	210.6	210.4	207.2	204.3
26.2 [mV]	209.4	204.8	210.6	210.4	207.2	204.3
27.1 [mV]	215.5	208.1	214.5	214.4	212.6	208.7
27.2 [mV]	215.5	208.1	214.5	214.4	212.6	208.7

SZ-TESTSYSTEME Statistics 03 Vers. 2.15 for TA10
RD233 54ACT74 FINAL EMS 0V/2 / 1.0 IR 21JUN97 14PIN TTL

Results file : RD233 54ACT74 FINAL EMS 0V/2 from: 31.07.97 / 15:21:31
Operator : PAUL RUSSELL
Part number : 54ACT74
Lot number : RD233
Order number : D/C 9610A
Vendor : NSC
: CONTROL 105 ; RAD 138-141,158
: FINAL EMS @ IGG (Vin=0V) PROG2
: 54ACT74 XM-PL-IGG-0035 ISS1 RD 2 1.0 IR 21JUN97 14PIN TTL

Test steps

1.	Continuity test	-2.00	...	0.01	V
2.	IccL	0.01	...	350.00	uA
3.	Functional Test 2	0	...	0	
4.	Voh1 PIN 5	5.40	...	5.50	V
5.	Voh1 PIN 6	5.40	...	5.50	V
6.	Voh1 PIN 8	5.40	...	5.50	V
7.	Voh1 PIN 9	5.40	...	5.50	V
8.	Voh2 PIN 5	3.70	...	4.50	V
9.	Voh2 PIN 6	3.70	...	4.50	V
10.	Voh2 PIN 8	3.70	...	4.50	V
11.	Voh2 PIN 9	3.70	...	4.50	V
12.	Voh3 PIN 5	3.85	...	5.50	V
13.	Voh3 PIN 6	3.85	...	5.50	V
14.	Voh3 PIN 8	3.85	...	5.50	V
15.	Voh3 PIN 9	3.85	...	5.50	V
16.	Vol3 PIN 5	0.01	...	1.65	V
17.	Vol3 PIN 6	0.01	...	1.65	V
18.	Vol3 PIN 8	0.01	...	1.65	V
19.	Vol3 PIN 9	0.01	...	1.65	V

	105	138	139	140	141	158
1.1 [V]	-0.64	-0.64	-0.64	-0.64	-0.64	-0.64
1.2 [V]	-0.59	-0.58	-0.58	-0.42	-0.58	-0.58
2.1 [uA]	0.18	0.11	0.11	2799.72 F	0.35	2.65
2.2 [uA]	0.18	0.11	0.11	2799.72 F	0.35	2.65
3.1 [ ]	0	17 F	51 F	17 F	51 F	17 F
3.2 [ ]	0	0	0	0	0	0
4.1 [V]	5.50	5.50	5.50	5.50	5.50	5.50
4.2 [V]	5.50	5.50	5.50	5.50	5.50	5.50
5.1 [V]	5.45	5.45	5.45	5.45	5.45	5.45
5.2 [V]	5.45	5.45	5.45	5.45	5.45	5.45
6.1 [V]	5.46	5.46	5.46	5.46	5.49	5.46
6.2 [V]	5.46	5.46	5.46	5.46	5.49	5.46
7.1 [V]	5.49	5.49	5.49	5.50	5.49	5.49
7.2 [V]	5.49	5.49	5.49	5.50	5.49	5.49
8.1 [V]	4.14	4.14	4.14	4.14	4.14	4.14
8.2 [V]	4.14	4.14	4.14	4.14	4.14	4.14
9.1 [V]	4.15	4.15	4.14	4.14	4.14	4.15
9.2 [V]	4.15	4.15	4.14	4.14	4.14	4.15
10.1 [V]	4.15	4.14	4.15	4.14	4.14	4.15
10.2 [V]	4.15	4.14	4.15	4.14	4.14	4.15
11.1 [V]	4.15	4.14	4.14	4.14	4.14	4.15
11.2 [V]	4.15	4.14	4.14	4.14	4.14	4.15
12.1 [V]	4.84	4.84	4.82	4.83	4.82	4.84
12.2 [V]	4.84	4.84	4.82	4.83	4.82	4.84
13.1 [V]	4.76	4.77	4.75	4.76	4.74	4.77
13.2 [V]	4.76	4.77	4.75	4.76	4.74	4.77
14.1 [V]	4.79	4.78	4.78	4.78	4.81	4.79
14.2 [V]	4.79	4.78	4.78	4.78	4.81	4.79
15.1 [V]	4.80	4.80	4.79	4.79	4.78	4.79
15.2 [V]	4.80	4.80	4.79	4.79	4.78	4.79
16.1 [V]	0.40	0.39	0.39	0.41	0.40	0.39
16.2 [V]	0.40	0.39	0.39	0.41	0.40	0.39
17.1 [V]	0.39	0.38	0.39	0.39	0.39	0.38
17.2 [V]	0.39	0.38	0.39	0.39	0.39	0.38
18.1 [V]	0.39	0.38	0.38	0.39	0.38	0.38
18.2 [V]	0.39	0.38	0.38	0.39	0.38	0.38
19.1 [V]	0.40	0.39	0.39	0.40	0.40	0.39
19.2 [V]	0.40	0.39	0.39	0.40	0.40	0.39

INITIAL EMS @ 166

I.G.G. COMPONENT TECHNOLOGY LTD.

REPORT NO. RD233

PART TYPE 54ACT74 OPTION - SHEET 1 OF 3

ELECTRICAL MEASUREMENTS w.r.t. XM-PL-166-0035 Table A

Parameter Serial No's	V_{ICI} (V) PIN 1	V_{ICI} (V) PIN 2	V_{ICI} (V) PIN 3	V_{ICI} (V) PIN 4	V_{ICI} (V) PIN 10	V_{ICI} (V) PIN 11	V_{ICI} (V) PIN 12
CONTROL 105	-0.744	-0.744	-0.746	-0.744	-0.746	-0.746	-0.744
108	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.746
121	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744
127	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744
128	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744
132	-0.744	-0.744	-0.744	-0.744	-0.744	-0.746	-0.744
138	-0.748	-0.746	-0.746	-0.746	-0.748	-0.748	-0.746
139	-0.744	-0.744	-0.746	-0.744	-0.746	-0.746	-0.744
140	-0.746	-0.746	-0.746	-0.746	-0.746	-0.748	-0.746
141	-0.744	-0.746	-0.746	-0.746	-0.744	-0.746	-0.744
158	-0.744	-0.744	-0.744	-0.744	-0.746	-0.746	-0.744
Limit	$\geq -1.5V$ $\leq -0.4V$						
Condition	$I_{IN} = -1mA$ $V_{SS} = 0V$						

Measured by P.G. Mussell Date 10TH JULY 1997

Test Equipment used:-

EQUIPMENT	CT NUMBER
TEKTRONIX 370 CURVE TRACER	CT217

I.G.G. COMPONENT TECHNOLOGY LTD.

REPORT NO. RD233

PART TYPE 54 ACT 74 OPTION - SHEET 2 OF 3

ELECTRICAL MEASUREMENTS w.r.t. XM-PL-IGG-0035 Table A

Parameter Serial No's	V_{ICI} (V) PIN 13		V_{ICZ} (V) PIN 1	V_{ICZ} (V) PIN 2	V_{ICZ} (V) PIN 3	V_{ICZ} (V) PIN 4	V_{ICZ} (V) PIN 10
CONTROL 105	-0.746		0.784	0.784	0.784	0.784	0.784
108	-0.744		0.784	0.782	0.784	0.782	0.782
121	-0.744		0.784	0.782	0.784	0.782	0.784
127	-0.744		0.784	0.784	0.784	0.784	0.784
128	-0.744		0.784	0.784	0.784	0.784	0.784
132	-0.744		0.784	0.784	0.784	0.786	0.784
138	-0.748		0.784	0.784	0.784	0.784	0.784
139	-0.746		0.784	0.784	0.784	0.784	0.784
140	-0.748		0.786	0.784	0.784	0.784	0.784
141	-0.746		0.784	0.784	0.784	0.784	0.784
158	-0.746		0.784	0.784	0.784	0.784	0.784
Limit	$\geq -1.5V$ $\leq -0.4V$		$\geq 0.4V$ $\leq 1.5V$	→			
Condition	$I_{IN} = -1mA$ $V_{SS} = 0V$		$I_{IN} = 1mA$ $V_{DD} = 0V$	→			

Measured by P. A. Mussell Date 10TH JULY 1997

Test Equipment used:-

EQUIPMENT	CT NUMBER
TEKTRONIX 370 CURVE TRACER	CT217

I.G.G. COMPONENT TECHNOLOGY LTD.

REPORT NO. RD233

PART TYPE 54ACT74 OPTION - SHEET 3 OF 3

ELECTRICAL MEASUREMENTS w.r.t. XM-PL-166-0035 Table A

Parameter Serial No's	V_{ICL} (V) PIN 11	V_{ICL} (V) PIN 12	V_{ICL} (V) PIN 13				
CONTROL 105	0.784	0.782	0.784				
108	0.784	0.784	0.784				
121	0.784	0.782	0.784				
127	0.784	0.784	0.784				
128	0.784	0.782	0.784				
132	0.784	0.784	0.784				
138	0.784	0.784	0.784				
139	0.784	0.784	0.784				
140	0.786	0.784	0.786				
141	0.784	0.784	0.784				
158	0.784	0.784	0.784				
Limit	$\geq$ 0.4 V $\leq$ 1.5 V	→	→				
Condition	I_{IN} = 1mA V_{DD} = 0V	→	→				

Measured by P.A. Russell Date 10TH JULY 1997

Test Equipment used:-

EQUIPMENT	CT NUMBER
TEKTRONIX 370 CURVE TRACER	CT217

I.G.G. COMPONENT TECHNOLOGY LTD.

REPORT NO. RD233

PART TYPE 54ACT74 OPTION - SHEET 1 OF 3

ELECTRICAL MEASUREMENTS w.r.t. XM-PL-166-0035 Table A

Parameter Serial No's	V_{ICI} (V) PIN 1	V_{ICI} (V) PIN 2	V_{ICI} (V) PIN 3	V_{ICI} (V) PIN 4	V_{ICI} (V) PIN 10	V_{ICI} (V) PIN 11	V_{ICI} (V) PIN 12
CONTROL 105	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744
108	-0.744	-0.744	-0.744	-0.742	-0.744	-0.744	-0.744
121	-0.742	-0.742	-0.742	-0.744	-0.742	-0.742	-0.744
127	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744
128	-0.742	-0.742	-0.742	-0.742	-0.742	-0.744	-0.744
132	-0.744	-0.742	-0.742	-0.742	-0.742	-0.744	-0.742
138	-0.744	-0.742	-0.744	-0.744	-0.744	-0.744	-0.744
139	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744
140	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744
141	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744
158	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744
Limit	$\geq -1.5V$ $\leq -0.4V$						
Condition	$I_{IN} = -1mA$ $V_{SS} = 0V$						

Measured by P.A. Russell Date 17TH JULY 1997

Test Equipment used:-

EQUIPMENT	CT NUMBER
TEKTRONIX 370 CURVE TRACER	CT217

I.G.G. COMPONENT TECHNOLOGY LTD.

REPORT NO. RD233

PART TYPE 54ACT74 OPTION - SHEET 2 OF 3

ELECTRICAL MEASUREMENTS w.r.t. XM-PL-IGG-0035 Table A

Parameter Serial No's	V_{ICI} (V) PIN 13		V_{ICC} (V) PIN 1	V_{ICC} (V) PIN 2	V_{ICC} (V) PIN 3	V_{ICC} (V) PIN 4	V_{ICC} (V) PIN 10
CONTROL 105	-0.744		0.784	0.784	0.784	0.784	0.784
108	-0.744		0.780	0.780	0.780	0.780	0.780
121	-0.744		0.780	0.780	0.780	0.780	0.780
127	-0.744		0.780	0.780	0.780	0.780	0.780
128	-0.744		0.780	0.780	0.782	0.782	0.780
132	-0.744		0.780	0.782	0.782	0.780	0.780
138	-0.744		0.782	0.782	0.782	0.782	0.782
139	-0.744		0.782	0.782	0.782	0.782	0.782
140	-0.744		0.782	0.782	0.782	0.780	0.780
141	-0.744		0.782	0.780	0.780	0.780	0.782
158	-0.744		0.780	0.782	0.782	0.782	0.782
Limit	≥ -1.5 V ≤ -0.4 V		≥ 0.4V ≤ 1.5V				
Condition	$I_N = -1$mA $V_{SS} = 0$V		$I_{IN} = 1$mA $V_{DD} = 0$V				

Measured by P Arduswell Date 17TH JULY 1997

Test Equipment used:-

EQUIPMENT	CT NUMBER
TEKTRONIX 370 CURVE TRACER	CT217

1031 ANNEAL ENG @ 166

I.G.G. COMPONENT TECHNOLOGY LTD.

REPORT NO. RD233

PART TYPE 54ACT 74 OPTION SHEET 3 OF 3

ELECTRICAL MEASUREMENTS w.r.t. XM-PL-166-0035 Table A

Parameter Serial No's	V_{ICC} (V) PIN 11	V_{ICC} (V) PIN 12	V_{ICC} (V) PIN 13				
CONTROL 105	0.784	0.784	0.784				
108	0.780	0.782	0.782				
121	0.780	0.780	0.780				
127	0.780	0.780	0.780				
128	0.782	0.780	0.782				
132	0.780	0.780	0.782				
138	0.782	0.782	0.782				
139	0.782	0.782	0.782				
140	0.782	0.780	0.782				
141	0.782	0.780	0.780				
158	0.782	0.782	0.782				
Limit	≥ 0.4 V ≤ 1.5 V	→					
Condition	$I_{IN} = 1$mA $V_{DD} = 0$V	→					

Measured by P.A. Mussell Date 17TH JULY 1997

Test Equipment used:-

EQUIPMENT	CT NUMBER
TEKTRONIX 370 CURVE TRACER	CT217

I.G.G. COMPONENT TECHNOLOGY LTD.

REPORT NO. RD233

PART TYPE 54 ACT 74 OPTION — SHEET 1 OF 3

ELECTRICAL MEASUREMENTS w.r.t. XM-PL-166-0035 Table A

Parameter Serial No's	V_{ICI} (V) PIN 1	V_{ICI} (V) PIN 2	V_{ICI} (V) PIN 3	V_{ICI} (V) PIN 4	V_{ICI} (V) PIN 10	V_{ICI} (V) PIN 11	V_{ICI} (V) PIN 12
CONTROL 105	-0.744	-0.744	-0.744	-0.744	-0.745	-0.745	-0.745
108	-0.744	-0.744	-0.744	-0.744	-0.744	-0.744	-0.745
121	-0.743	-0.744	-0.743	-0.743	-0.744	-0.744	-0.744
127	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745	-0.745
128	-0.744	-0.744	-0.744	-0.744	-0.745	-0.745	-0.745
132	-0.745	-0.745	-0.745	-0.744	-0.744	-0.745	-0.745
138							
139							
140							
141							
158							
Limit	≥ -1.5 V ≤ -0.4 V						
Condition	$I_{IN} = -1$mA $V_{SS} = 0$V						

Measured by P.A. Russell Date 25/7/97

Test Equipment used:-

EQUIPMENT	CT NUMBER
TEKTRONIX 370 CURVE TRACER	CT217

I.G.G. COMPONENT TECHNOLOGY LTD.

REPORT NO. RD233

PART TYPE 54ACT74 OPTION - SHEET 2 OF 3

ELECTRICAL MEASUREMENTS w.r.t. XM-PL-IGG-0035 Table A

Parameter Serial No's	V_{IC1} (V) PIN 13		V_{IC2} (V) PIN 1	V_{IC2} (V) PIN 2	V_{IC2} (V) PIN 3	V_{IC2} (V) PIN 4	V_{IC2} (V) PIN 10
CONTROL 105	-0.745		0.783	0.783	0.783	0.783	0.784
108	-0.745		0.782	0.782	0.782	0.782	0.782
121	-0.744		0.782	0.782	0.782	0.782	0.782
127	-0.745		0.783	0.783	0.783	0.783	0.783
128	-0.745		0.783	0.783	0.783	0.783	0.783
132	-0.745		0.783	0.783	0.783	0.783	0.783
138							
139							
140							
141							
158							
Limit	≥ -1.5 V ≤ -0.4 V		≥ 0.4 V ≤ 1.5 V	} →			
Condition	$I_{IN} = -1$mA $V_{SS} = 0$V		$I_{IN} = 1$mA $V_{DD} = 0$V	} →			

Measured by P.A. Russell Date 25/7/97

Test Equipment used:-

EQUIPMENT	CT NUMBER
TEKTRONIX 370 CURVE TRACER	CT217

I.G.G. COMPONENT TECHNOLOGY LTD.

REPORT NO. RD233

PART TYPE 54 ACT 74 OPTION - SHEET 3 OF 3

ELECTRICAL MEASUREMENTS w.r.t. XM-PL-166-0035 Table A

Parameter Serial No's	V_{IC2} (V) PIN 11	V_{IC2} (V) PIN 12	V_{IC2} (V) PIN 13				
CONTROL 105	0·783	0·783	0·784				
108	0·782	0·782	0·782				
121	0·782	0·782	0·782				
127	0·783	0·783	0·783				
128	0·783	0·783	0·784				
132	0·783	0·783	0·783				
138							
139							
140							
141							
158							
Limit	≥ 0.4 V ≤ 1.5 V	→					
Condition	$I_{IN} = 1$mA $V_{DD} = 0$V	→					

Measured by I.A. Russell Date 25/7/97

Test Equipment used:-

EQUIPMENT	CT NUMBER
TEKTRONIX 370 CURVE TRACER	CT217