

Checklist of SPS LS_CNTR

9.1.2 Controller-1 Module

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
1	MON-28 wrt 29	TM1 SEQCMD_PYR wrt TM2	4kΩ ± 2 %	4.000kΩ	4.000kΩ
2	MON-30 wrt 31	TM1 SEQCMD_VAL wrt TM2	4kΩ ± 2 %	4.000kΩ	4.000kΩ
3	MON-45 wrt 46	RET-TM1 SEQCMD_PYR wrt RET-TM2	4kΩ ± 2 %	4.000kΩ	4.000kΩ
4	MON-47 wrt 48	RET-TM1 SEQCMD_VAL wrt RET-TMR2	4kΩ ± 2 %	4.000kΩ	4.000kΩ
5	MON-20 wrt 22	T&E_MON-5V wrt TM1_5V	10kΩ ± 2 %	10.096kΩ	10.096kΩ
6	MON-20 wrt 23	T&E_MON-5V wrt TM2_5V	10kΩ ± 2 %	10.096kΩ	10.096kΩ
7	MON-22 wrt 39	TMR1-5V wrt RET_TM1_5V	16.2kΩ ± 2 %	16.295kΩ	16.295kΩ
8	MON-45 wrt CNTRLPWR-14	RET_TM1 SEQCMD_PYR wrt GND	2kΩ ± 2 %	2.000kΩ	2.000kΩ
9	MON-46 wrt CNTRLPWR-14	RET_TM2 SEQCMD_PYR wrt GND	2kΩ ± 2 %	2.000kΩ	2.000kΩ
10	MON-47 wrt CNTRLPWR-14	RET_TM1 SEQCMD_VAL wrt GND	2kΩ ± 2 %	2.000kΩ	2.000kΩ
11	MON-48 wrt CNTRLPWR-14	RET_TM2 SEQCMD_VAL wrt GND	2kΩ ± 2 %	2.000kΩ	2.000kΩ
12	MON-20 wrt CNTRLPWR-18	T&E_MON-5V wrt GND	2.2kΩ ± 2 %	2.266kΩ	2.266kΩ
13	MON-23 wrt MON-40	TM2-5V wrt RET_TM2-5V	16.2kΩ ± 2 %	16.295kΩ	16.295kΩ
14	MON-39 wrt CNTRLPWR-18	RET_TM1-5V wrt GND	8.25kΩ ± 2 %	8.249kΩ	8.250kΩ
15	MON-40 wrt CNTRLPWR-18	RET_TM2-5V wrt GND	8.25kΩ ± 2 %	8.249kΩ	8.249kΩ
16	MON-22 wrt CNTRLPWR-18	TM1-5V wrt GND	Not Short	8.042kΩ	8.043kΩ
17	MON-23 wrt CNTRLPWR-18	TM2-5V wrt GND	8kΩ ± 2 %	8.043kΩ	8.043kΩ
18	CNTRLPWR-1 wrt 2	+15V I/P	<100mΩ	9mΩ	10mΩ
19	CNTRLPWR-3 wrt 4	-15V I/P	<100mΩ	10mΩ	10mΩ
20	CNTRLPWR-5 wrt 6	+5V I/P	<100mΩ	9mΩ	8mΩ
21	CNTRLPWR-5 wrt 7	+5V I/P	<100mΩ	8mΩ	9mΩ
22	CNTRLPWR-5 wrt 8	+5V I/P	<100mΩ	9mΩ	9mΩ
23	CNTRLPWR-14 wrt 15	AGND	<100mΩ	8mΩ	8mΩ
24	CNTRLPWR-14 wrt 16	AGND	<100mΩ	10mΩ	9mΩ
25	CNTRLPWR-14 wrt 17	AGND	<100mΩ	11mΩ	10mΩ
26	CNTRLPWR-14 wrt 18	AGND wrt GND	<150mΩ	76mΩ	75mΩ
27	CNTRLPWR-14 wrt 19	AGND wrt GND	<150mΩ	76mΩ	74mΩ
28	CNTRLPWR-14 wrt 20	AGND wrt GND	<150mΩ	76mΩ	75mΩ
29	CNTRLPWR-14 wrt 21	AGND wrt GND	<150mΩ	76mΩ	75mΩ
30	CNTRLPWR-14 wrt 22	AGND wrt RET_28V	<150mΩ	115mΩ	113mΩ
31	CNTRLPWR-14 wrt 23	AGND wrt RET_28V	<150mΩ	114mΩ	113mΩ
32	CNTRLPWR-14 wrt 24	AGND wrt RET_28V(S200)	<150mΩ	114mΩ	112mΩ
33	CNTRLPWR-14 wrt 25	AGND wrt RET_28V(S200)	<150mΩ	114mΩ	112mΩ
34	CNTRLPWR-14 wrt MON-34	AGND wrt RET_28V(S200)	<150mΩ	80mΩ	80mΩ
35	CNTRLPWR-14 wrt MON-35	AGND	<150mΩ	81mΩ	80mΩ
36	CNTRLPWR-14 wrt MON-36	AGND wrt GND	<150mΩ	77mΩ	76mΩ
37	CNTRLPWR-14 wrt MON-37	AGND wrt GND	<150mΩ	76mΩ	76mΩ
38	CNTRLPWR-14 wrt HARDCORE-24	AGND	<100mΩ	60mΩ	60mΩ
39	CNTRLPWR-14 wrt HARDCORE-25	AGND	<100mΩ	60mΩ	60mΩ

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
40	CMDOUT-50 wrt Chassis	Chassis	<100mΩ	15mΩ	16mΩ
41	MON-50 wrt Chassis	Chassis	<100mΩ	9mΩ	10mΩ
42	CNTRLPWR-1 wrt 14	+15V wrt AGND	*Not Short	66.758kΩ	67.144kΩ
43	CNTRLPWR-14 wrt 3	AGND wrt -15V	*Not Short	14.888kΩ	14.890kΩ
44	CNTRLPWR-1 wrt 3	+15V wrt -15V	*Not Short	70.570kΩ	71.024kΩ
45	CNTRLPWR-5 wrt 18	5V I/P wrt GND	*Not Short	4.497kΩ	4.499kΩ
46	HARDCORE-1 wrt 14	DAC 0	<100mΩ	8mΩ	7mΩ
47	HARDCORE-2 wrt 15	DAC 1	<100mΩ	7mΩ	7mΩ
48	HARDCORE-3 wrt 16	DAC 2	<100mΩ	8mΩ	7mΩ
49	HARDCORE-4 wrt 17	DAC 3	<100mΩ	8mΩ	8mΩ
50	HARDCORE-5 wrt 18	DAC 4	<100mΩ	8mΩ	7mΩ
51	HARDCORE-6 wrt 19	DAC 5	<100mΩ	8mΩ	8mΩ
52	HARDCORE-7 wrt 20	DAC 6	<100mΩ	7mΩ	7mΩ
53	HARDCORE-8 wrt 21	DAC 7	<100mΩ	7mΩ	7mΩ
54	All connector mounting posts wrt chassis		<100mΩ	<100mΩ	<100mΩ
55	All pins (except CMDOUT-50 & MON-50) wrt chassis		>100MΩ	>100MΩ	>100MΩ

Measured with DMM in 100kΩ range.

List of connectors in the Package

1.CNTRLPWR=25M

2.HARDCORE=25F

3.MON,CMDOUT=50F