

Checklist of SPS CUS_HC CUS

HC-CUS MODULE

Note: Give OSS_HC_RESET (KM3-25 wrt 26) and SEQ_HC_RESET (KM3-23 & KM3-24) Commands before measurement.

SL No.	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
1	KM1-47 wrt KF1-24	5V_TM & OSS Inh-Mon3	1.068kΩ±2%	1.066kΩ	1.066kΩ
2	KF1-24 wrt KF2-20	OSS Inh-Mon3 & 2	3kΩ±2%	2.997kΩ	2.997kΩ
3	KF1-24 wrt KF1-20	OSS Inh-Mon3 & 1	3kΩ±2%	2.995kΩ	2.995kΩ
4	KF1-20 wrt KF2-20	OSS Inh-Mon1 & 2	4kΩ±2%	3.995kΩ	3.995kΩ
5	KM1-47 wrt KF1-23	5V_TM & OSS-HC-PMON3	1.068kΩ±2%	1.065kΩ	1.065kΩ
6	KF2-18 wrt KF1-18	OSS-HC-PMON2 & 1	4kΩ±2%	3.991kΩ	3.991kΩ
7	KF1-23 wrt KF1-18	OSS-HC-PMON3 & 1	3kΩ±2%	2.994kΩ	2.993kΩ
8	KF1-23 wrt KF2-18	OSS-HC-PMON3 & 2	3kΩ±2%	2.993kΩ	2.992kΩ
9	KM1-47 wrt KF2-23	5V_TM & OSS-HC-RMON3	1.068kΩ±2%	1.064kΩ	1.064kΩ
10	KF2-23 wrt KF2-19	OSS-HC-RMON3 & 2	3kΩ±2%	2.996kΩ	2.995kΩ
11	KF2-23 wrt KF1-19	OSS-HC-RMON3 & 1	3kΩ±2%	2.996kΩ	2.996kΩ
12	KF2-19 wrt KF1-19	OSS-HC-RMON2 & 1	4kΩ±2%	3.999kΩ	3.998kΩ
13	KM1-47 wrt KF2-21	5V_TM & OSS-HC-INH-MON3	1.068kΩ±2%	1.066kΩ	1.066kΩ
14	KF2-21 wrt KF2-15	OSS-HC INH-MON	3kΩ±2%	2.995kΩ	2.995kΩ
15	KF2-21 wrt KF1-15	OSS-HC INH-MON	3kΩ±2%	2.992kΩ	2.992kΩ
16	KF1-15 wrt KF2-15	OSS-HC INH-MON	4kΩ±2%	3.990kΩ	3.990kΩ
17	KM1-47 wrt KF1-21	5V_TM & SEQ -HC-INH-MON3	1.068kΩ±2%	1.066kΩ	1.066kΩ
18	KF2-14 wrt KF1-14	SEQ -HC-INH-MON1 & 2	4kΩ±2%	3.991kΩ	3.991kΩ
19	KF1-14 wrt KF1-21	SEQ -HC-INH-MON1 & 3	3kΩ±2%	2.994kΩ	2.994kΩ
20	KF2-14 wrt KF1-21	SEQ -HC-INH-MON2 & 3	3kΩ±2%	3.991kΩ	3.991kΩ
21	KM1-47 wrt KF2-22	5V Live & SEQ -HC-RMON3	1.068kΩ±2%	1.065kΩ	1.065kΩ
22	KF2-17 wrt KF1-17	SEQ -HC-RMON1 & 2	4kΩ±2%	3.996kΩ	3.995kΩ
23	KF1-17 wrt KF2-22	SEQ -HC-RMON1 & 3	3kΩ±2%	2.998kΩ	2.998kΩ
24	KF2-17 wrt KF2-22	SEQ -HC-RMON2 & 3	3kΩ±2%	2.993kΩ	2.993kΩ
25	KM1-47 wrt KF1-22	5V Live & SEQ-HC- PMON3	1.068kΩ±2%	1.066kΩ	1.066kΩ
26	KF2-16 wrt KF1-16	SEQ-HC- PMON1 & 2	4kΩ±2%	3.992kΩ	3.992kΩ
27	KF1-22 wrt KF1-16	SEQ-HC- PMON1 & 3	3kΩ±2%	2.993kΩ	2.993kΩ
28	KF1-22 wrt KF2-16	SEQ-HC- PMON2 & 3	3kΩ±2%	2.996kΩ	2.996kΩ
29	KM1-1 wrt KM1-2	OSS1P	SHORT (<100mΩ)	9mΩ	32mΩ
30	KM1-3 wrt KM1-4	OSS2P		10mΩ	32mΩ
31	KM1-5 wrt KM1-6	OSS3P		9mΩ	32mΩ
32	KM1-7 wrt KM1-8	OSS4P		9mΩ	32mΩ
33	KM1-9 wrt KM1-10	OSS5P		9mΩ	32mΩ
34	KM1-11 wrt KM1-12	OSS6P		9mΩ	32mΩ
35	KM1-17 wrt KM1-18	HC-SEQ-P		39mΩ	61mΩ
36	KM1-34 wrt KM1-35	HC-CON-P		8mΩ	30mΩ
37	KM1-37 wrt KM1-38	CMD1-IN-P		8mΩ	31mΩ
38	KM1-39 wrt KM1-40	CMD2-IN-P		6mΩ	28mΩ
39	KM1-41 wrt KM1-42	CMD3-IN-P		5mΩ	28mΩ

41	KM3-1 wrt KM3-2	OSS1R		8mΩ	30mΩ
42	KM3-3 wrt KM3-4	OSS2R		9mΩ	31mΩ
43	KM3-5 wrt KM3-6	OSS3R		9mΩ	31mΩ
44	KM3-7 wrt KM3-8	OSS4R		9mΩ	31mΩ
45	KM3-9 wrt KM3-10	OSS5R		9mΩ	31mΩ
46	KM3-11 wrt KM3-12	OSS6R		10mΩ	31mΩ
47	KM3-17 wrt KM3-18	HC-SEQ-R		38mΩ	59mΩ
48	KM3-34 wrt KM3-35	HC-CON-R		8mΩ	28mΩ
49	KM3-37 wrt KM3-38	CMD1-IN-R		7mΩ	30mΩ
50	KM3-39 wrt KM3-40	CMD2-IN-R		7mΩ	30mΩ
51	KM3-41 wrt KM3-42	CMD3-IN-R		7mΩ	30mΩ
52	KM1-49wrt KM3-43	EP-SW-P		15mΩ	38mΩ
53	KM1-13 wrt KM3-13	CMD1	<500mΩ	49mΩ	71mΩ
54	KM1-14 wrt KM3-14	CMD2		53mΩ	76mΩ
55	KM1-15 wrt KM3-15	CMD3		56mΩ	78mΩ
56	KM1-16 wrt KM3-16	CMD4		69mΩ	93mΩ
57	KM2-1 wrt KM2-2	28V DC-DC-P	SHORT (<100mΩ)	8mΩ	9mΩ
58	KM2-4 wrt KM2-5	28V-EPV-P		10mΩ	8mΩ
59	KM2-8 wrt KM2-9	28V-IN-CEM- P		7mΩ	6mΩ
60	KM2-6 wrt KM2-7	Rtn 28V DC-DC-P		9mΩ	9mΩ
61	KM4-1 wrt KM4-2	28V DC-DC-R		57mΩ	7mΩ
62	KM4-4 wrt KM4-5	28V-EPV-R		9mΩ	8mΩ
63	KM4-8 wrt KM4-9	28V-IN-CEM- R		9mΩ	7mΩ
64	KM4-6 wrt KM4-7	Rtn 28V DC-DC-R		8mΩ	8mΩ
65	KM1-47 wrt KM3-47	5V-TM	<500mΩ	8mΩ	31mΩ
66	KM1-48 wrt KM3-48	TM-RTN	<100mΩ	10mΩ	33mΩ
67	KF1-1 wrt KF2-1	OSS OUT1P &R	<500mΩ	51mΩ	51mΩ
68	KF1-2 wrt KF2-2	OSS OUT2P &R		38mΩ	37mΩ
69	KF1-3 wrt KF2-3	OSS OUT3P &R		74mΩ	75mΩ
70	KF1-4 wrt KF2-4	OSS OUT4P &R		81mΩ	82mΩ
71	KF1-5 wrt KF2-5	OSS OUT5P &R		57mΩ	61mΩ
72	KF1-6 wrt KF2-6	OSS OUT6P &R		63mΩ	63mΩ
73	KF1-7 wrt KF2-7	CMD1 OUT-P		73mΩ	73mΩ
74	KF1-8 wrt KF2-8	CMD1 OUT-R		94mΩ	94mΩ
75	KF1-9 wrt KF2-9	CMD2 OUT-P		70mΩ	70mΩ
76	KF1-10 wrt KF2-10	CMD2 OUT-R		70mΩ	70mΩ
77	KF1-11 wrt KF2-11	CMD3 OUT-P		65mΩ	65mΩ
78	KF1-12 wrt KF2-12	CMD3 OUT-R		60mΩ	63mΩ
79	KF1-13 wrt KF2-13	CMD4 OUT		57mΩ	57mΩ
80	KM1-19 wrt KM3-19	CMDBAR1 P&R		82mΩ	104mΩ
81	KM1-20 wrt KM3-20	CMDBAR2 P&R	71mΩ	94mΩ	
82	KM1-21 wrt KM3-21	CMDBAR3 P&R	263mΩ	286mΩ	
83	KM1-22 wrt KM3-22	CMDBAR4 P&R	288mΩ	310mΩ	
84	KF1-26 wrt KF2-26	SEL_OSS1	<500mΩ	67mΩ	67mΩ
85	KF1-27 wrt KF2-27	SEL_OSS2	<500mΩ	63mΩ	63mΩ
86	KF1-28 wrt KF2-28	SEL_OSS3	<500mΩ	82mΩ	82mΩ
87	KF1-29 wrt KF2-29	SEL_OSS4	<500mΩ	81mΩ	81mΩ

88	KF1-30 wrt KF2-30	SEL_OSS5	<500mΩ	71mΩ	71mΩ
89	KF1-31 wrt KF2-31	SEL_OSS6	<500mΩ	64mΩ	65mΩ
90	KF1-32 wrt KF1-33	SEL_OSS1_Coil13	<500mΩ	5mΩ	5mΩ
91	KF1-34 wrt KF1-35	SEL_OSS2_Coil13	<500mΩ	4mΩ	5mΩ
92	KF1-36 wrt KF1-37	SEL_OSS3_Coil13	<500mΩ	4mΩ	4mΩ
93	KF1-38 wrt KF1-39	SEL_OSS4_Coil13	<500mΩ	4mΩ	4mΩ
94	KF1-40 wrt KF1-41	SEL_OSS5_Coil13	<500mΩ	4mΩ	4mΩ
95	KF1-42 wrt KF1-43	SEL_OSS6_Coil13	<500mΩ	4mΩ	4mΩ
96	KF2-32 wrt KF2-33	SEL_OSS1_Coil2	<500mΩ	5mΩ	5mΩ
97	KF2-34 wrt KF2-35	SEL_OSS2_Coil2	<500mΩ	4mΩ	9mΩ
98	KF2-36 wrt KF2-37	SEL_OSS3_Coil2	<500mΩ	4mΩ	4mΩ
99	KF2-38 wrt KF2-39	SEL_OSS4_Coil2	<500mΩ	4mΩ	4mΩ
100	KF2-40 wrt KF2-41	SEL_OSS5_Coil2	<500mΩ	4mΩ	4mΩ
101	KF2-42 wrt KF2-43	SEL_OSS6_Coil2	<500mΩ	4mΩ	4mΩ
102	All pins wrt chassis		OPEN	>100MΩ	>100MΩ
103	All Connector mounting posts wrt chassis		SHORT	<100mΩ	<100mΩ

List of connectors used in the package

1.KM1,KM3=50M 3.KF1,KF2=50F

2.KM2,KM4=9M

CUS-CNTRL (P & R)

SI No	Pin Details	Description	Spec	Test Results			
				Prime		Redundant	
				ISRC	FSRC	ISRC	FSRC
1	CMDBAR1-37 w.r.to CMDCON2-37	DBA_PY_H_TM2 & DBA_PY_H_TM1	3.920kΩ to 4.080kΩ	4.000kΩ	4.000kΩ	4.000kΩ	4.000kΩ
2	CMDCON2-38 w.r.to CMDCON1-47	DBA_PY_L_TM1 & +15Vin AGND	1.960kΩ to 2.040kΩ	2.000kΩ	2.000kΩ	2.000kΩ	2.000kΩ
3	CMDBAR1-38 w.r.to CMDCON1-47	DBA_PY_L_TM2 & +15Vin AGND	1.960kΩ to 2.040kΩ	2.000kΩ	2.000kΩ	2.000kΩ	2.000kΩ
4	CMDCON2-38 w.r.to CMDBAR1-38	DBA_PY_L_TM1 & DBA_PY_L_TM2	3.920kΩ to 4.080kΩ	4.001kΩ	4.001kΩ	4.000kΩ	4.000kΩ
5	CMDCON2-34 w.r.to CMDCON2-42	VCC & MON5V_H_TM1	1.190kΩ to 1.270kΩ	1.230kΩ	1.230kΩ	1.226kΩ	1.226kΩ
6	CMDCON2-34 w.r.to CMDBAR1-46	VCC & MON5V_H_TM2	1.190kΩ to 1.270kΩ	1.229kΩ	1.229kΩ	1.225kΩ	1.225kΩ
7	CMDCON2-42 w.r.to CMDCON2-43	MON5V_H_TM1 wrt	1.140kΩ to	1.170kΩ	1.170kΩ	1.168kΩ	1.168kΩ