

Checklist of SPS BS_HSRCS

SPS BS – HSRCS

Note: Give SEQ HC RESET (CIP 42 wrt 43) and DAC HC RESET (CIR 42 wrt 43) command before measurement.

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
1	CIP-26 w.r.to CIP-27	DAC 0 (P)	<100mΩ	5mΩ	5mΩ
2	CIP-28 w.r.to CIP-29	DAC 1 (P)	<100mΩ	5mΩ	5mΩ
3	CIP-30 w.r.to CIP-31	DAC 2 (P)	<100mΩ	6mΩ	5mΩ
4	CIP-32 w.r.to CIP-33	DAC 3 (P)	<100mΩ	5mΩ	6mΩ
5	CIP-34 w.r.to CIP-35	DAC 4 (P)	<100mΩ	4mΩ	4mΩ
6	CIP-36 w.r.to CIP-37	DAC 5 (P)	<100mΩ	4mΩ	4mΩ
7	CIR-26 w.r.to CIR-27	DAC 0 (R)	<100mΩ	5mΩ	6mΩ
8	CIR-28 w.r.to CIR-29	DAC 1 (R)	<100mΩ	6mΩ	7mΩ
9	CIR-30 w.r.to CIR-31	DAC 2 (R)	<100mΩ	5mΩ	5mΩ
10	CIR-32 w.r.to CIR-33	DAC 3 (R)	<100mΩ	5mΩ	5mΩ
11	CIR-34 w.r.to CIR-35	DAC 4 (R)	<100mΩ	6mΩ	5mΩ
12	CIR-36 w.r.to CIR-37	DAC 5 (R)	<100mΩ	4mΩ	4mΩ
13	CIP-49 w.r.to CIP-50	DAC Rtn	<100mΩ	4mΩ	4mΩ
14	CIP-49 w.r.to CIR-49	DAC Rtn	<100mΩ	20mΩ	20mΩ
15	CIP-49 w.r.to CIR-50	DAC Rtn	<100mΩ	20mΩ	20mΩ
16	CIP-49 w.r.to CTRL_OP-7	DAC RTN	<100mΩ	30mΩ	29mΩ
17	CIP-49 w.r.to CTRL_OP-8		<100mΩ	30mΩ	29mΩ
18	CIP-49 w.r.to CTRL_OP-15		<100mΩ	29mΩ	29mΩ
19	CIP-49 w.r.to CTRL_OP-16		<100mΩ	29mΩ	29mΩ
20	CIP-49 w.r.to CTRL_OP-23		<100mΩ	30mΩ	31mΩ
21	CIP-49 w.r.to CTRL_OP-24		<100mΩ	30mΩ	31mΩ
22	CIP-49 w.r.to CTRL_OP-31		<100mΩ	29mΩ	29mΩ
23	CIP-49 w.r.to CTRL_OP-32		<100mΩ	28mΩ	29mΩ
24	CIP-49 w.r.to CTRL_OP-35		<100mΩ	31mΩ	30mΩ
25	CIP-49 w.r.to CTRL_OP-36		<100mΩ	30mΩ	30mΩ
26	CIP-49 w.r.to CTRL_OP-39	<100mΩ	29mΩ	30mΩ	

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
27	CIP-49 w.r.to CTRL_OP-40		<100mΩ	31mΩ	30mΩ
28	CIP-5 w.r.to CIR-5	DAC H/C P & R	1.96kΩ to 2.04kΩ	2.005kΩ	2.005kΩ
29	PO-30 w.r.to PO-19	5V Ins & DAC H/C-P STS	1.007kΩ to 1.113kΩ	1.069kΩ	1.069kΩ
30	PO-19 w.r.to PO-20	DAC H/C – P STS	1.96kΩ to 2.04kΩ	2.003kΩ	2.003kΩ
31	PO-19 w.r.to PO-21	DAC H/C – P STS	1.96kΩ to 2.04kΩ	2.005kΩ	2.005kΩ
32	PO-20 w.r.to PO-21	DAC H/C – P STS	1.96kΩ to 2.04kΩ	2.005kΩ	2.005kΩ
33	PO-30 w.r.to PO-16	5V INS & DAC H/C INH STS	1.007kΩ to 1.113kΩ	1.070kΩ	1.070kΩ
34	PO-16 w.r.to PO-17	DAC H/C INH STS	1.96kΩ to 2.04kΩ	2.005kΩ	2.005kΩ
35	PO-16 w.r.to PO-18	DAC H/C INH STS	1.96kΩ to 2.04kΩ	2.007kΩ	2.007kΩ
36	PO-17 w.r.to PO-18	DAC H/C INH STS	1.96kΩ to 2.04kΩ	2.007kΩ	2.007kΩ
37	PO-30 w.r.to RO-19	5V INS & DAC H/C-R STS	1.007kΩ to 1.113kΩ	1.069kΩ	1.069kΩ
38	RO-19 w.r.to RO-20	DAC H/C – P STS	1.96kΩ to 2.04kΩ	2.003kΩ	2.003kΩ
39	RO-19 w.r.to RO-21	DAC H/C – P STS	1.96kΩ to 2.04kΩ	2.005kΩ	2.005kΩ
40	RO-20 w.r.to RO-21	DAC H/C – P STS	1.96kΩ to 2.04kΩ	2.006kΩ	2.006kΩ
41	CTRL_OP-1 w.r.to CTRL_OP-2	PCOM 1	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.403kΩ	4.403kΩ
42	CTRL_OP-2 w.r.to CTRL_OP-3	PCOM 1	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.407kΩ	4.407kΩ
43	CTRL_OP-3 w.r.to CTRL_OP-4	PCOM 1	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.410kΩ	4.410kΩ
44	CTRL_OP-4 w.r.to CTRL_OP-5	PCOM 1	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.409kΩ	4.408kΩ
45	CTRL_OP-5 w.r.to CTRL_OP-6	PCOM 1	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.407kΩ	4.406kΩ
46	CIP-27 w.r.to CTRL_OP-1	PCOM 1	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.201kΩ	2.201kΩ
47	CIP-27 w.r.to CTRL_OP-2	PCOM 1	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.202kΩ	2.202kΩ
48	CIP-27 w.r.to CTRL_OP-3	PCOM 1	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.206kΩ	2.205kΩ

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
49	CIP-27 w.r.to CTRL_OP-4	PCOM 1	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.205kΩ	2.205kΩ
50	CIP-27 w.r.to CTRL_OP-5	PCOM 1	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.204kΩ	2.204kΩ
51	CIP-27 w.r.to CTRL_OP-6	PCOM 1	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.203kΩ	2.203kΩ
52	CTRL_OP-1 w.r.to MON_OP-38	PCOM 1 & Mont	6.566kΩ to 6.834kΩ/ 6.762kΩ to 7.038kΩ/ 6.958kΩ to 7.242kΩ/ 7.154kΩ to 7.446kΩ	7.303kΩ	7.303kΩ
53	CTRL_OP-9 w.r.to CTRL_OP-10	PCOM 2	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.403kΩ	4.402kΩ
54	CTRL_OP-10 w.r.to CTRL_OP-11	PCOM 2	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.405kΩ	4.405kΩ
55	CTRL_OP-11 w.r.to CTRL_OP-12	PCOM 2	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.408kΩ	4.408kΩ
56	CTRL_OP-12 w.r.to CTRL_OP-13	PCOM 2	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.406kΩ	4.406kΩ
57	CTRL_OP-13 w.r.to CTRL_OP-14	PCOM 2	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.407kΩ	4.407kΩ
58	CIP-29 w.r.to CTRL_OP-9	PCOM 2	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.203kΩ	2.203kΩ
59	CIP-29 w.r.to CTRL_OP-10	PCOM 2	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.200kΩ	2.200kΩ
60	CIP-29 w.r.to CTRL_OP-11	PCOM 2	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.205kΩ	2.205kΩ
61	CIP-29 w.r.to CTRL_OP-12	PCOM 2	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.203kΩ	2.203kΩ
62	CIP-29 w.r.to CTRL_OP-13	PCOM 2	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.203kΩ	2.203kΩ
63	CIP-29 w.r.to CTRL_OP-14	PCOM 2	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.204kΩ	2.204kΩ

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
			2.156kΩ to 2.244kΩ		
64			6.566kΩ to 6.834kΩ/ 6.762kΩ to 7.038kΩ/ 6.958kΩ to 7.242kΩ/ 7.154kΩ to 7.446kΩ		
	CTRL_OP-9 w.r.to MON_OP-39	PCOM 2 & Mont		7.308kΩ	7.308kΩ
65	CTRL_OP-17 w.r.to CTRL_OP-18	YCOM 1	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.406kΩ	4.406kΩ
66	CTRL_OP-18 w.r.to CTRL_OP-19	YCOM 1	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.403kΩ	4.403kΩ
67	CTRL_OP-19 w.r.to CTRL_OP-20	YCOM 1	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.405kΩ	4.404kΩ
68	CTRL_OP-20 w.r.to CTRL_OP-21	YCOM 1	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.405kΩ	4.404kΩ
69	CTRL_OP-21 w.r.to CTRL_OP-22	YCOM 1	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.405kΩ	4.405kΩ
70	CIP-31 w.r.to CTRL_OP-17	YCOM 2	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.204kΩ	2.204kΩ
71	CIP-31 w.r.to CTRL_OP-18	YCOM 3	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.202kΩ	2.202kΩ
72	CIP-31 w.r.to CTRL_OP-19	YCOM 4	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.202kΩ	2.202kΩ
73	CIP-31 w.r.to CTRL_OP-20	YCOM 5	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.203kΩ	2.203kΩ
74	CIP-31 w.r.to CTRL_OP-21	YCOM 6	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.202kΩ	2.202kΩ
75	CIP-31 w.r.to CTRL_OP-22	YCOM 7	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.204kΩ	2.204kΩ
			6.566kΩ to 6.834kΩ/ 6.762kΩ to 7.038kΩ/ 6.958kΩ to 7.242kΩ/ 7.154kΩ to 7.446kΩ		
76	CTRL_OP-17 w.r.to MON_OP-40	YCOM 1& Mont		7.310kΩ	7.310kΩ

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
77	CTRL_OP-37 w.r.to CTRL_OP-38	RCOM 2	<100mΩ	23mΩ	23mΩ
78	CTRL_OP-37 w.r.to MON_OP-43	RCOM 2 & Mont	6.566kΩ to 6.834kΩ/ 6.762kΩ to 7.038kΩ/ 6.958kΩ to 7.242kΩ/ 7.154kΩ to 7.446kΩ	7.063kΩ	7.063kΩ
79	CIP-36 w.r.to CTRL_OP-37	RCOM 2	1.911kΩ to 1.989kΩ/ 2.058kΩ to 2.142kΩ	1.953kΩ	1.953kΩ
80	CIP-49 w.r.to MON_OP-45	DAC Rtn& DAC Mon Rtn	4.606kΩ to 4.794kΩ/ 4.998kΩ to 5.202kΩ	5.104kΩ	5.104kΩ
81	CIP-49 w.r.to MON_OP-46	DAC Rtn& DAC Mon Rtn	4.606kΩ to 4.794kΩ/ 4.998kΩ to 5.202kΩ	5.108kΩ	5.108kΩ
82	CIP-49 w.r.to MON_OP-47	DAC Rtn& DAC Mon Rtn	4.606kΩ to 4.794kΩ/ 4.998kΩ to 5.202kΩ	5.105kΩ	5.105kΩ
83	CIP-49 w.r.to MON_OP-48	DAC Rtn& DAC Mon Rtn	4.606kΩ to 4.794kΩ/ 4.998kΩ to 5.202kΩ	5.108kΩ	5.108kΩ
84	CIP-49 w.r.to MON_OP-49	DAC Rtn& DAC Mon Rtn	4.606kΩ to 4.794kΩ/ 4.998kΩ to 5.202kΩ	5.108kΩ	5.108kΩ
85	CIP-49 w.r.to MON_OP-50	DAC Rtn& DAC Mon Rtn	4.606kΩ to 4.794kΩ/ 4.998kΩ to 5.202kΩ	5.107kΩ	5.107kΩ
86	CIR-42 w.r.to CIR-43	H/C_RESET HIGH & H/C_RESET LOW FOR DAC	405Ω to 495Ω	454.302Ω	452.861Ω
87	CIR-44 w.r.to CIR-45	H/C_INHIBIT HIGH & H/C_INHIBIT LOW FOR DAC	810Ω to 990Ω	918.412Ω	915.446Ω
88	CIP-1 w.r.to CIR-1	SEQ H/C – P & R	1.96kΩ to 2.04kΩ	2.008kΩ	2.008kΩ
89	PO-30 w.r.to RO-30	5V INST LIVE	<150mΩ	101mΩ	100mΩ
90	PO-44 w.r.to RO-44	5V INST RTN	<100mΩ	41mΩ	41mΩ
91	CIP-2 w.r.to CIP-6	5V RTN P	<100mΩ	7mΩ	8mΩ
92	CIP-2 w.r.to CIR-2	5V RTN P & R	<300mΩ	199mΩ	198mΩ
93	CIP-2 w.r.to CIR-6	5V RTN P & R	<300mΩ	197mΩ	196mΩ
94	CIP-2 w.r.to PWR-P-11	5V RTN & 28V RTN-P	<120mΩ	90mΩ	90mΩ
95	PWR-P-3 w.r.to PWR-P-4	28V (P)	<100mΩ	7mΩ	7mΩ
96	PWR-R-3 w.r.to PWR-R-4	28V (R)	<100mΩ	7mΩ	8mΩ

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
97	PWR-P-11 w.r.to PWR-P-12	28V RTN P	<100mΩ	8mΩ	8mΩ
98	PWR-P-11 w.r.to PWR-R-11	28V RTN P & R	<100mΩ	19mΩ	19mΩ
99	PWR-R-11 w.r.to PWR-R-12	28V RTN R	<100mΩ	6mΩ	6mΩ
100	PO-30 w.r.to PO-22	5v Ins &Seq H/C InhSts	1.007kΩ to 1.113kΩ	1.070kΩ	1.070kΩ
101	PO-22 w.r.to PO-23	SEQ H/C INH STS	1.96kΩ to 2.04kΩ	2.004kΩ	2.004kΩ
102	PO-22 w.r.to PO-24	SEQ H/C INH STS	1.96kΩ to 2.04kΩ	2.007kΩ	2.007kΩ
103	PO-23 w.r.to PO-24	SEQ H/C INH STS	1.96kΩ to 2.04kΩ	2.005kΩ	2.005kΩ
104	PO-41 w.r.to PO-42	ANA DBA (P)	3.92kΩ to 4.08kΩ / 4.312kΩ to 4.488kΩ	4.406kΩ	4.406kΩ
105	PO-41 w.r.to PO-43	ANA & SERIAL DBA (P)	3.92kΩ to 4.08kΩ / 4.312kΩ to 4.488kΩ	4.408kΩ	4.408kΩ
106	PO-42 w.r.to PO-43	ANA & SERIAL DBA (P)	3.92kΩ to 4.08kΩ / 4.312kΩ to 4.488kΩ	4.412kΩ	4.411kΩ
107	RO-41 w.r.to RO-42	ANA DBA (R)	3.92kΩ to 4.08kΩ / 4.312kΩ to 4.488kΩ	4.403kΩ	4.403kΩ
108	RO-41 w.r.to RO-43	ANA & SERIAL DBA (R)	3.92kΩ to 4.08kΩ / 4.312kΩ to 4.488kΩ	4.404kΩ	4.404kΩ
109	RO-42 w.r.to RO-43	ANA & SERIAL DBA (R)	3.92kΩ to 4.08kΩ / 4.312kΩ to 4.488kΩ	4.407kΩ	4.406kΩ
110	PO-30 w.r.to RO-25	5V INS & SEQ H/C STS (R)	1.007kΩ to 1.113kΩ	1.070kΩ	1.070kΩ
111	RO-25 w.r.to RO-26	SEQ H/C STS (R)	1.96kΩ to 2.04kΩ	2.006kΩ	2.006kΩ
112	RO-25 w.r.to RO-27	SEQ H/C STS (R)	1.96kΩ to 2.04kΩ	2.005kΩ	2.005kΩ
113	RO-26 w.r.to RO-27	SEQ H/C STS (R)	1.96kΩ to 2.04kΩ	2.005kΩ	2.005kΩ
114	CIP-3 w.r.to CIP-4	EP (P)	<100mΩ	40mΩ	41mΩ
115	CIR-3 w.r.to CIR-4	EP (R)	<100mΩ	6mΩ	6mΩ
116	PO-28 w.r.to PO-29	DAU-II T/M1& DAU-II T/M2	3.92kΩ to 4.08kΩ / 4.312kΩ to 4.488kΩ	4.410kΩ	4.410kΩ
117	PWR-P-11 w.r.to PO-28	28V Rtn (P) & DAU-II T/M1	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.205kΩ	2.204kΩ
118	PWR-P-11 w.r.to PO-29	28V Rtn (P) & DAU-II T/M2	1.96kΩ to 2.04kΩ/	2.206kΩ	2.206kΩ

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
119	RO-28 w.r.to RO-29	DAU-II T/M1& DAU-II T/M2	2.156kΩ to 2.244kΩ 3.92kΩ to 4.08kΩ / 4.312kΩ to 4.488kΩ	4.408kΩ	4.408kΩ
120	PWR-R-11 w.r.to RO-28	28V Rtn (R) & DAU-II T/M1	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.204kΩ	2.204kΩ
121	PWR-R-11 w.r.to RO-29	28V Rtn (R) & DAU-II T/M2	1.96kΩ to 2.04kΩ/ 2.156kΩ to 2.244kΩ	2.204kΩ	2.204kΩ
122	PO-30 w.r.to PO-25	5V Inst&Seq HC sts (P)	1.007kΩ to 1.113kΩ	1.069kΩ	1.069kΩ
123	PO-25 w.r.to PO-26	Seq HC sts (P)	1.96kΩ to 2.04kΩ	2.002kΩ	2.002kΩ
124	PO-25 w.r.to PO-27	Seq HC sts (P)	1.96kΩ to 2.04kΩ	2.004kΩ	2.004kΩ
125	PO-26 w.r.to PO-27	Seq HC sts (P)	1.96kΩ to 2.04kΩ	2.003kΩ	2.003kΩ
126	PWR-P-11 w.r.to PWR-P-13	28V RTN & ANA RTN-P	<100mΩ	17mΩ	17mΩ
127	PWR-P-3 w.r.to PWR-R-3	Oring diode checks	111.72kΩ to 116.28kΩ	113.664kΩ	113.695kΩ
128	PWR-R-3 w.r.to PWR-P-3	Oring diode checks	111.72kΩ to 116.28kΩ	113.525kΩ	113.563kΩ
129	CIP-42 w.r.to CIP-43	H/C_ RESET HIGH & H/C_ RESET LOW FOR SEQ	405Ω to 495Ω	464.268Ω	463.072Ω
130	CIP-44 w.r.to CIP-45	H/C_ INHIBIT HIGH & H/C_ INHIBIT LOW FOR SEQ	810Ω to 990Ω	931.768Ω	929.185Ω
131	CIP-3 w.r.to PWR-P-11	EP (P) & GND	500mΩ to 600mΩ	548mΩ	548mΩ
132	CIR-3 w.r.to PWR-R-11	EP (R) & GND	500mΩ to 600mΩ	563mΩ	563mΩ
133	CIP-7 w.r.to CIP-8	RCS 0 (P)	<100mΩ	5mΩ	5mΩ
134	CIP-9 w.r.to CIP-10	RCS 1 (P)	<100mΩ	6mΩ	6mΩ
135	CIR-7 w.r.to CIR-8	RCS 0 (R)	<100mΩ	7mΩ	7mΩ
136	CIR-9 w.r.to CIR-10	RCS 1 (R)	<100mΩ	6mΩ	7mΩ
137	PO-30 w.r.to RO-16	5V INS & RCS INH MON	1.007kΩ to 1.113kΩ	1.072kΩ	1.072kΩ
138	RO-16 w.r.to RO-17	RCS INH MON	1.96kΩ to 2.04kΩ	2.006kΩ	2.006kΩ
139	RO-16 w.r.to RO-18	RCS INH MON	1.96kΩ to 2.04kΩ	2.008kΩ	2.008kΩ
140	RO-17 w.r.to RO-18	RCS INH MON	1.96kΩ to 2.04kΩ	2.005kΩ	2.005kΩ
141	PWR-P-5 w.r.to PWR-P-6	+15V (P)	<100mΩ	6mΩ	7mΩ
142	PWR-P-7 w.r.to PWR-P-8	-15V (P)	<100mΩ	6mΩ	6mΩ

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
143	PWR-R-5 w.r.to PWR-R-6	+15V (R)	<100mΩ	8mΩ	7mΩ
144	PWR-R-7 w.r.to PWR-R-8	-15V (R)	<100mΩ	8mΩ	8mΩ
145	PWR-R-13 w.r.to CIR-46	ANA RTN (R)	<100mΩ	10mΩ	10mΩ
146	PWR-P-13 w.r.to CIP-46	ANA RTN (P)	<100mΩ	14mΩ	13mΩ
147	PO-40 w.r.to PWR-P-11	28V (P) MON & GND	9.8kΩ to 10.2kΩ	10.022kΩ	10.022kΩ
148	RO-40 w.r.to PWR-R-11	28V (R) MON & GND	9.8kΩ to 10.2kΩ	10.027kΩ	10.027kΩ
149	PWR-P-3 w.r.to PO-40	28V (P) & 28V (P) MON	46.06kΩ to 47.94kΩ	46.868kΩ	46.874kΩ
150	PWR-R-3 w.r.to RO-40	28V (P) & 28V (P) MON	46.06kΩ to 47.94kΩ	46.864kΩ	46.878kΩ
151	CIP-24 w.r.to CIP-25	ANA RTN P & R	405Ω to 495Ω	467.197Ω	465.731Ω
152	PWR-P-13 w.r.to PWR-R-13	RCS INHIBIT HIGH & RCS INHIBIT LOW	<100mΩ	37mΩ	37mΩ
153	PWR-P-14 w.r.to PWR-P-15	RCS RET	<100mΩ	8mΩ	8mΩ
154	PWR-P-14 w.r.to PWR-R-14	RCS RET	<100mΩ	16mΩ	16mΩ
155	PWR-P-14 w.r.to PWR-R-15	RCS RET	<100mΩ	16mΩ	16mΩ
156	PO-1 w.r.to PO-2	ACSY (+) Thruster-1	<100mΩ	31mΩ	30mΩ
157	PO-1 w.r.to PO-3	ACSY (+) Thruster-1	<100mΩ	31mΩ	31mΩ
158	PO-1 w.r.to PO-4	ACSY (+) Thruster-1	<100mΩ	32mΩ	31mΩ
159	RO-1 w.r.to RO-2	ACSY (+) Thruster-2	<100mΩ	30mΩ	30mΩ
160	RO-1 w.r.to RO-3	ACSY (+) Thruster-2	<100mΩ	30mΩ	30mΩ
161	RO-1 w.r.to RO-4	ACSY (+) Thruster-2	<100mΩ	31mΩ	30mΩ
162	PO-5 w.r.to PO-6	ACSY (-) Thruster-1	<100mΩ	30mΩ	30mΩ
163	PO-5 w.r.to PO-7	ACSY (-) Thruster-1	<100mΩ	31mΩ	31mΩ
164	PO-5 w.r.to PO-8	ACSY (-) Thruster-1	<100mΩ	31mΩ	31mΩ
165	RO-5 w.r.to RO-6	ACSY (-) Thruster-2	<100mΩ	31mΩ	31mΩ
166	RO-5 w.r.to RO-7	ACSY (-) Thruster-2	<100mΩ	31mΩ	31mΩ
167	RO-5 w.r.to RO-8	ACSY (-) Thruster-2	<100mΩ	31mΩ	31mΩ
168	MON_OP-1 w.r.to PWR-P-15	ACSY(+) Thruster1 MON&Rtn	2.156kΩ to 2.244kΩ / 3.234kΩ to 3.366kΩ	3.309kΩ	3.309kΩ
169	MON_OP-1 w.r.to PO-1	ACSY (+) Thruster-1 & MON	10.78kΩ to 11.22kΩ /19.6kΩ to 20.4kΩ	20.043kΩ	20.043kΩ
170	MON_OP-2 w.r.to PWR-P-15	ACSY (+) Thruster2MON&Rtn	2.156kΩ to 2.244kΩ	3.306kΩ	3.307kΩ

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
			/3.234kΩ to 3.366kΩ		
171	MON_OP-2 w.r.to RO-1	ACSY (+) Thruster-2 & MON	10.78kΩ to 11.22kΩ /19.6kΩ to 20.4kΩ	20.047kΩ	20.047kΩ
172	MON_OP-3 w.r.to PWR-P-15	ACSY (-) Thruster1 MON&Rtn	2.156kΩ to 2.244kΩ /3.234kΩ to 3.366kΩ	3.309kΩ	3.309kΩ
173	MON_OP-3 w.r.to PO-5	ACSY (-) Thruster-1 &MON	10.78kΩ to 11.22kΩ /19.6kΩ to 20.4kΩ	20.047kΩ	20.046kΩ
174	MON_OP-4 w.r.to PWR-P-15	ACSY (-) Thruster2 MON&Rtn	2.156kΩ to 2.244kΩ /3.234kΩ to 3.366kΩ	3.306kΩ	3.306kΩ
175	MON_OP-4 w.r.to RO-5	ACSY (-) Thruster-2 & MON	10.78kΩ to 11.22kΩ /19.6kΩ to 20.4kΩ	20.049kΩ	20.047kΩ
176	PO-31 w.r.to PO-32	RCS Rtn	<100mΩ	30mΩ	30mΩ
177	PO-31 w.r.to PO-33	RCS Rtn	<100mΩ	30mΩ	30mΩ
178	PO-31 w.r.to PO-34	RCS Rtn	<100mΩ	30mΩ	30mΩ
179	PO-31 w.r.to PO-35	RCS Rtn	<100mΩ	31mΩ	31mΩ
180	PO-31 w.r.to PO-36	RCS Rtn	<100mΩ	31mΩ	30mΩ
181	PO-31 w.r.to PO-37	RCS Rtn	<100mΩ	31mΩ	31mΩ
182	PO-31 w.r.to PO-38	RCS Rtn	<100mΩ	30mΩ	31mΩ
183	PO-31 w.r.to RO-31	RCS Rtn	<100mΩ	43mΩ	43mΩ
184	PO-31 w.r.to RO-32	RCS Rtn	<100mΩ	44mΩ	44mΩ
185	PO-31 w.r.to RO-33	RCS Rtn	<100mΩ	43mΩ	43mΩ
186	PO-31 w.r.to RO-34	RCS Rtn	<100mΩ	43mΩ	43mΩ
187	PO-31 w.r.to RO-35	RCS Rtn	<100mΩ	43mΩ	43mΩ
188	PO-31 w.r.to RO-36	RCS Rtn	<100mΩ	44mΩ	44mΩ
189	PO-31 w.r.to RO-37	RCS Rtn	<100mΩ	44mΩ	44mΩ
190	PO-31 w.r.to RO-38	RCS Rtn	<100mΩ	44mΩ	44mΩ
191	PO-31 w.r.to MON_OP-18	RCS Rtn	<100mΩ	34mΩ	34mΩ
192	PO-31 w.r.to MON_OP-19	RCS Rtn	<100mΩ	35mΩ	34mΩ
193	PO-31 w.r.to MON_OP-20	RCS Rtn	<100mΩ	33mΩ	32mΩ
194	PO-31 w.r.to MON_OP-21	RCS Rtn	<100mΩ	32mΩ	32mΩ

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
195	PWR-P-1 w.r.to PWR-R-1	28V_RCS P	<100mΩ	34mΩ	34mΩ
196	PWR-P-2 w.r.to PWR-R-2	28V_RCS R	<100mΩ	41mΩ	42mΩ
197	PWR-P-1 w.r.to PWR-P-2	28V_RCS P & R	>100MΩ	>100MΩ	>100MΩ
198	CTRL_OP-25 w.r.to CTRL_OP-26	YCOM2	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.409kΩ	4.409kΩ
199	CTRL_OP-26 w.r.to CTRL_OP-27	YCOM2	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.408kΩ	4.408kΩ
200	CTRL_OP-27 w.r.to CTRL_OP-28	YCOM2	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.409kΩ	4.408kΩ
201	CTRL_OP-28 w.r.to CTRL_OP-29	YCOM2	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.411kΩ	4.410kΩ
202	CTRL_OP-29 w.r.to CTRL_OP-30	YCOM2	3.92kΩ to 4.08kΩ/ 4.312kΩ to 4.488kΩ	4.408kΩ	4.408kΩ
203	CTRL_OP-25 w.r.to MON_OP-41	YCOM2 & MON	6.566kΩ to 6.834kΩ/ 6.762kΩ to 7.038kΩ/ 6.958kΩ to 7.242kΩ/ 7.154kΩ to 7.446kΩ	7.316kΩ	7.316kΩ
204	CTRL_OP-33 w.r.to CTRL_OP-34	RCOM1	<100mΩ	20mΩ	19mΩ
205	CTRL_OP-33 w.r.to MON_OP-42	RCOM1& MON	6.566kΩ to 6.834kΩ/ 6.762kΩ to 7.038kΩ/ 6.958kΩ to 7.242kΩ/ 7.154kΩ to 7.446kΩ 2.058kΩ to 2.142kΩ / 1.911kΩ to 1.989kΩ	7.060kΩ	7.060kΩ
206	CIP-34 w.r.to CTRL_OP-34	RCOM1	1.96kΩ to 2.04kΩ / 2.156kΩ to 2.244kΩ	1.954kΩ	1.954kΩ
207	CIP-33 w.r.to CTRL_OP-25	YCOM2	1.96kΩ to 2.04kΩ / 2.156kΩ to 2.244kΩ	2.205kΩ	2.205kΩ
208	CIP-33 w.r.to CTRL_OP-26	YCOM2	1.96kΩ to 2.04kΩ / 2.156kΩ to 2.244kΩ	2.204kΩ	2.204kΩ
209	CIP-33 w.r.to CTRL_OP-27	YCOM2	1.96kΩ to 2.04kΩ / 2.156kΩ to 2.244kΩ	2.204kΩ	2.204kΩ

Sl No	Pin Details	Description	Expected	Observed	
				ISRC	FSRC
210	CIP-33 w.r.to CTRL_OP-28	YCOM2	1.96kΩ to 2.04kΩ / 2.156kΩ to 2.244kΩ	2.205kΩ	2.205kΩ
211	CIP-33 w.r.to CTRL_OP-29	YCOM2	1.96kΩ to 2.04kΩ / 2.156kΩ to 2.244kΩ	2.206kΩ	2.206kΩ
212	CIP-33 w.r.to CTRL_OP-30	YCOM2	1.96kΩ to 2.04kΩ / 2.156kΩ to 2.244kΩ	2.203kΩ	2.203kΩ
213	Connector mounting post (CIP, PWR-P, PO, MON_OP, PWR-R, CTRL_OP, CIR, RO) wrt chassis		<100mΩ	<100mΩ	<100mΩ
214	All pins w.r.to Chassis		>100MΩ	>100MΩ	>100MΩ

*** OR'ing function of diodes was verified as follows:**

Step1: 28V is applied across PWR P-3 wrt PWR P-12 and voltage across PWR R-3 wrt PWR R-12 is measured.

Step2: 28V is applied across PWR R-3 wrt PWR R-12 and voltage across PWR P-3 wrt PWR P-12 is measured.

PRIME		REDUNDANT	
Pin Details	Result(mV)	Pin Details	Result(mV)
	FSRC		FSRC
PWR P-3 wrt PWR P-12	9.268	PWR R-3 wrt PWR R-12	7.984
			Spec
			±50mV

HSRCS (BS)

Sl No	Pin Details	Description	Spec	Results(Ω)	
				ISRC	FSRC
1	PWR-P-3 w.r.to CIP-44	+28V & H/C INH for Seq	>100M Ω	>100M Ω	>100M Ω
2	PWR-P-3 w.r.to CIP-42	+28V & H/C RESET for Seq	>100M Ω	>100M Ω	>100M Ω
3	PWR-P-3 w.r.to CIP-24	+28V & H/C INH for RCS	>100M Ω	>100M Ω	>100M Ω
4	PWR-P-3 w.r.to CIR-42	+28V & H/C RESET for DAC	>100M Ω	>100M Ω	>100M Ω
5	PWR-P-3 w.r.to CIR-44	+28V & H/C INH for DAC	>100M Ω	>100M Ω	>100M Ω
6	PWR-P-3 w.r.to CIP-26	+28V & DAC 0 (P)	>100M Ω	>100M Ω	>100M Ω
7	PWR-P-3 w.r.to CIP-28	+28V & DAC 1 (P)	>100M Ω	>100M Ω	>100M Ω
8	PWR-P-3 w.r.to CIP-30	+28V & DAC 2 (P)	>100M Ω	>100M Ω	>100M Ω
9	PWR-P-3 w.r.to CIP-32	+28V & DAC 3 (P)	>100M Ω	>100M Ω	>100M Ω
10	PWR-P-3 w.r.to CIP-34	+28V & DAC 4 (P)	>100M Ω	>100M Ω	>100M Ω
11	PWR-P-3 w.r.to CIP-36	+28V & DAC 5 (P)	>100M Ω	>100M Ω	>100M Ω
12	PWR-P-3 w.r.to CIR-26	+28V & DAC 0 (R)	>100M Ω	>100M Ω	>100M Ω
13	PWR-P-3 w.r.to CIR-28	+28V & DAC 1 (R)	>100M Ω	>100M Ω	>100M Ω
14	PWR-P-3 w.r.to CIR-30	+28V & DAC 2 (R)	>100M Ω	>100M Ω	>100M Ω
15	PWR-P-3 w.r.to CIR-32	+28V & DAC 3 (R)	>100M Ω	>100M Ω	>100M Ω
16	PWR-P-3 w.r.to CIR-34	+28V & DAC 4 (R)	>100M Ω	>100M Ω	>100M Ω
17	PWR-P-3 w.r.to CIR-36	+28V & DAC 5 (R)	>100M Ω	>100M Ω	>100M Ω
18	PWR-P-3 w.r.to PO-30	+28V & INST Live	>100M Ω	>100M Ω	>100M Ω
19	PWR-P-3 w.r.to PO-44	+28V & INST Rtn	>100M Ω	>100M Ω	>100M Ω
20	PO-30 w.r.to CIP-44	INST Live & H/C INH for Seq	>100M Ω	>100M Ω	>100M Ω
21	PO-30 w.r.to CIP-42	INST Live & H/C RESET for Seq	>100M Ω	>100M Ω	>100M Ω
22	PO-30 w.r.to CIR-42	INST Live & H/CINH for RCS	>100M Ω	>100M Ω	>100M Ω
23	PO-30 w.r.to CIR-44	INST Live & H/CRESET for DAC	>100M Ω	>100M Ω	>100M Ω
24	PO-30 w.r.to CIP-24	INST Live & H/C INH for DAC	>100M Ω	>100M Ω	>100M Ω
25	PO-30 w.r.to PO-36	INST Live & RCS Rtn	>100M Ω	>100M Ω	>100M Ω
26	PO-30 w.r.to CIP-50	INST Live & DAC Rtn	>100M Ω	>100M Ω	>100M Ω
27	PO-30 w.r.to PWR-P-11	INST Live & 28V Rtn	>100M Ω	>100M Ω	>100M Ω

SI No	Pin Details	Description	Spec	Results(Ω)	
				ISRC	FSRC
28	PO-30 w.r.to PWR-P-13	INST Live & +15V Rtn	>100M Ω	>100M Ω	>100M Ω
29	PO-30 w.r.to CIP-2	INST Live & 5V Rtn	>100M Ω	>100M Ω	>100M Ω
30	PO-30 w.r.to CTRL_OP-1	INST Live & Selected DAC o/ps	>100M Ω	>100M Ω	>100M Ω
31	PO-30 w.r.to CTRL_OP-9		>100M Ω	>100M Ω	>100M Ω
32	PO-30 w.r.to CTRL_OP-17		>100M Ω	>100M Ω	>100M Ω
33	PO-30 w.r.to CTRL_OP-25		>100M Ω	>100M Ω	>100M Ω
34	PO-30 w.r.to CTRL_OP-33		>100M Ω	>100M Ω	>100M Ω
35	PO-30 w.r.to CTRL_OP-37		>100M Ω	>100M Ω	>100M Ω
36	PO-30 w.r.to CTRL_OP-41		>100M Ω	>100M Ω	>100M Ω
37	PWR-P-3 w.r.to CIP-3		+28VP & EP (P)	56.5k Ω to 57.5k Ω	56.842k Ω
38	PWR-P-3 w.r.to CIR-3	+28VP & EP (R)	56.5k Ω to 57.5k Ω	56.841k Ω	56.853k Ω
39	PWR-R-3 w.r.to CIP-3	+28VR & EP (P)	56.5k Ω to 57.5k Ω	56.845k Ω	56.855k Ω
40	PWR-R-3 w.r.to CIR-3	+28VR & EP (R)	56.5k Ω to 57.5k Ω	56.845k Ω	56.858k Ω
41	PO-36 w.r.to CIP-7	RCS Rtn& RCS 0 (P)	>100M Ω	>100M Ω	>100M Ω
42	PO-36 w.r.to CIP-9	RCS Rtn& RCS 1 (P)	>100M Ω	>100M Ω	>100M Ω
43	PO-36 w.r.to CIR-7	RCS Rtn& RCS 0 (R)	>100M Ω	>100M Ω	>100M Ω
44	PO-36 w.r.to CIR-9	RCS Rtn& RCS 1 (R)	>100M Ω	>100M Ω	>100M Ω
45	PO-36 w.r.to CTRL_OP-1	RCS Rtn& Selected DAC o/ps	>100M Ω	>100M Ω	>100M Ω
46	PO-36 w.r.to CTRL_OP-9		>100M Ω	>100M Ω	>100M Ω
47	PO-36 w.r.to CTRL_OP-17		>100M Ω	>100M Ω	>100M Ω
48	PO-36 w.r.to CTRL_OP-25		>100M Ω	>100M Ω	>100M Ω
49	PO-36 w.r.to CTRL_OP-33		>100M Ω	>100M Ω	>100M Ω
50	PO-36 w.r.to CTRL_OP-37		>100M Ω	>100M Ω	>100M Ω
51	CIP-7 w.r.to PWR-P-1	RCS 0 & +28V_RCS (P)	>100M Ω	>100M Ω	>100M Ω
52	CIP-7 w.r.to PWR-P-2	RCS 0 & +28V_RCS (R)	>100M Ω	>100M Ω	>100M Ω
53	CIP-7 w.r.to PO-1	RCS 0 & RCS4/1 MIMH	>100M Ω	>100M Ω	>100M Ω
54	CIP-7 w.r.to RO-1	RCS 0 & RCS4/1 MON	>100M Ω	>100M Ω	>100M Ω
55	CIP-9 w.r.to PWR-P-1	RCS 1 & +28V_RCS (P)	>100M Ω	>100M Ω	>100M Ω

SI No	Pin Details	Description	Spec	Results(Ω)	
				ISRC	FSRC
56	CIP-9 w.r.to PWR-P-2	RCS 1 & +28V_RCS (R)	>100M Ω	>100M Ω	>100M Ω
57	CIP-9 w.r.to PO-5	RCS 1 & RCS4/2 MMH	>100M Ω	>100M Ω	>100M Ω
58	CIP-9 w.r.to RO-5	RCS 1 & RCS4/2 MON	>100M Ω	>100M Ω	>100M Ω
59	PWR-P-11 w.r.to CIP-7	28V rtnwrt RCS 0 (P)	70k Ω to 130k Ω	74.392k Ω	74.712k Ω
60	PWR-P-11 w.r.to CIP-9	28V rtnwrt RCS 1 (P)	70k Ω to 130k Ω	73.733k Ω	74.086k Ω
61	PWR-P-11 w.r.to CIR-7	28V rtnwrt RCS 0 (R)	>100M Ω	>100M Ω	>100M Ω
62	PWR-P-11 w.r.to CIR-9	28V rtnwrt RCS 1 (R)	>100M Ω	>100M Ω	>100M Ω
63	PWR-P-5 w.r.to PWR-P-13	+15V (P) & Rtn	60k Ω to 90k Ω	77.636k Ω	77.775k Ω
64	PWR-P-13 w.r.to PWR-P-7	-15V (P) & Rtn	1.5M Ω to 3.0M Ω	2.579M Ω	2.622M Ω
65	PWR-P-5 w.r.to PWR-P-7	+15V (P) & -15V (P)	1.5M Ω to 3.0M Ω	2.125M Ω	2.133M Ω
66	PWR-R-5 w.r.to PWR-R-13	+15V (R) & Rtn	60 k Ω to 90 k Ω	78.183k Ω	78.450k Ω
67	PWR-R-13 w.r.to PWR-R-7	-15V (R) & Rtn	1.5M Ω to 3.0M Ω	2.597M Ω	2.640M Ω
68	PWR-R-5 w.r.to PWR-R-7	+15V (R) & -15V (R)	1.5M Ω to 3.0M Ω	2.133M Ω	2.142M Ω
69	PO-36 w.r.to PO-44	RCS Rtn&InstRtn	>100M Ω	>100M Ω	>100M Ω
70	PO-36 w.r.to CIP-44	RCS Rtn& H/C INH for Seq	>100M Ω	>100M Ω	>100M Ω
71	PO-36 w.r.to CIP-42	RCS Rtn& H/C RESET for Seq	>100M Ω	>100M Ω	>100M Ω
72	PO-36 w.r.to CIR-42	RCS Rtn& H/C RESET for DAC	>100M Ω	>100M Ω	>100M Ω
73	PO-36 w.r.to CIR-44	RCS Rtn& H/C INH for DAC	>100M Ω	>100M Ω	>100M Ω
74	PO-36 w.r.to CIP-24	RCS Rtn& H/C INH for RCS	>100M Ω	>100M Ω	>100M Ω

List of connectors used in the package
1.CIP,CIR,MON_OP,CTRL_OP-50F
2.PWR-P,PWR-R=15M
3.PO,RO=44M