

40	CIP-7 wrt CIP-5	R-Contact rtnwrt live-P	>100MΩ	>100MΩ	>100MΩ
41	CIP-7 wrt CIR-5	R-Contact rtnwrt live-R	>100MΩ	>100MΩ	>100MΩ
42	CIP-7 wrt CIP-14	R-Contact rtnwrt P-Coil Live	>100MΩ	>100MΩ	>100MΩ
43	CIP-7 wrt PO-1 to 9	R-Contact rtnwrt o/ps	>100MΩ	>100MΩ	>100MΩ
44	CIP-7 wrt RO-1 to 9	R-Contact rtnwrt o/ps	>100MΩ	>100MΩ	>100MΩ
45	CIP-7 wrt CP-1 to 37	R-Contact rtnwrt midpoints	>100MΩ	>100MΩ	>100MΩ
46	CIP-14 wrt CIP-5	P-Coil Live wrt Contact-P live	>100MΩ	>100MΩ	>100MΩ
47	CIP-14 wrt CIR-5	P-Coil Live wrt Contact-R live	>100MΩ	>100MΩ	>100MΩ
48	CIP-14 wrt CIP-7	P-Coil Live wrt Contact rtn	>100MΩ	>100MΩ	>100MΩ
49	CIP-14 wrt PO-1 to 9	P-Coil Live wrt o/ps	>100MΩ	>100MΩ	>100MΩ
50	CIP-14 wrt RO-1 to 9	P-Coil Live wrt o/ps	>100MΩ	>100MΩ	>100MΩ
51	CIP-14 wrt CP-1 to 37	P-Coil Live wrt midpoints	>100MΩ	>100MΩ	>100MΩ
52	CIP-15 wrt CIP-5	R-Coil Live wrt Contact-P live	>100MΩ	>100MΩ	>100MΩ
53	CIP-15 wrt CIR-5	R-Coil Live wrt Contact-R live	>100MΩ	>100MΩ	>100MΩ
54	CIP-15 wrt CIP-7	R-Coil Live wrt Contact rtn	>100MΩ	>100MΩ	>100MΩ
55	CIP-15 wrt PO-1 to 9	R-Coil Live wrt o/ps	>100MΩ	>100MΩ	>100MΩ
56	CIP-15 wrt RO-1 to 9	R-Coil Live wrt o/ps	>100MΩ	>100MΩ	>100MΩ
57	CIP-15 wrt CP-1 to 37	R-Coil Live wrt midpoints	>100MΩ	>100MΩ	>100MΩ
All pins with respect to chassis			>100MΩ	>100MΩ	>100MΩ

### BAT - RTN Module

### Checklist of CEM EB RTN\_BAT RTN

Sl no	Pin Details	Description	Expected	Observed	
				ISRC	ISRC
1	PB_R-A wrt B	BAT (-)/SQB_P	<100mΩ	13mΩ	8mΩ
2	PB_R-A wrt C	BAT (-)/SQB_P	<100mΩ	12mΩ	8mΩ
3	PB_R-A wrt D	BAT (-)/SQB_P	<100mΩ	19mΩ	7mΩ
4	PB_R-A wrt E	BAT (-)/SQB_P	<100mΩ	17mΩ	8mΩ
5	PB_R-A wrt F	BAT (-)/SQB_P	<100mΩ	14mΩ	7mΩ
6	PB_R-A wrt G	BAT (-)/SQB_P	<100mΩ	13mΩ	7mΩ
7	PB_R-A wrt H	BAT (-)/SQB_P	<100mΩ	10mΩ	7mΩ
8	PB_R-A wrt J	BAT (-)/SQB_P	<100mΩ	14mΩ	8mΩ
9	RB_R-A wrt B	BAT (-)/SQB_R	<100mΩ	8mΩ	7mΩ
10	RB_R-A wrt C	BAT (-)/SQB_R	<100mΩ	10mΩ	8mΩ
11	RB_R-A wrt D	BAT (-)/SQB_R	<100mΩ	25mΩ	10mΩ
12	RB_R-A wrt E	BAT (-)/SQB_R	<100mΩ	10mΩ	8mΩ
13	RB_R-A wrt F	BAT (-)/SQB_R	<100mΩ	6mΩ	8mΩ
14	RB_R-A wrt G	BAT (-)/SQB_R	<100mΩ	7mΩ	8mΩ
15	RB_R-A wrt H	BAT (-)/SQB_R	<100mΩ	15mΩ	8mΩ
16	RB_R-A wrt J	BAT (-)/SQB_R	<100mΩ	9mΩ	7mΩ
17	PB_R-A wrt Chassis	BAT (-)/SQB_P wrt Chassis	1 kΩ±2 %	1.000kΩ	1.014kΩ
18	RB_R-A wrt Chassis	BAT (-)/SQB_R wrt Chassis	1 kΩ± 2 %	1.000kΩ	1.015kΩ
19	PB_R-K wrt RB_R-K	IP CON.MAT_P wrt IP CON.MAT_R	<100mΩ	15mΩ	11mΩ
20	MON_OP-3 wrt 7	BAT ALL OFF	<100mΩ	52mΩ	54mΩ
21	MON_OP 17 wrt 18	BAT (-) ST. MON/SQB	2 kΩ± 2 %	2.001kΩ	2.000kΩ
22	MON_OP 18 wrt 19	BAT (-) ST. MON/SQB	2 kΩ± 2 %	2.000kΩ	2.000kΩ
23	MON_OP 21 wrt 22	BAT (-) ST. MON/VLV	2 kΩ± 2 %	2.000kΩ	2.000kΩ
24	MON_OP 22 wrt 23	BAT (-) ST. MON/VLV	2 kΩ± 2 %	2.000kΩ	2.000kΩ

25	MON_OP 25 wrt 26	BAT(-) ST. MON/RCS	2 kΩ±2 %	2.000kΩ	2.000kΩ
26	MON_OP 26 wrt 27	BAT(-) ST. MON/RCS	2 kΩ± 2 %	2.000kΩ	2.000kΩ
27	MON_OP-44 wrt MON_OP-17	INST.LIVE_MON & BAT(-) ST. MON/SQB	1.47kΩ±2%	1.476kΩ	1.476kΩ
28	MON_OP 44 wrt MON_OP 21	INST.LIVE_MON & BAT(-) ST. MON/VLV	1.47kΩ±2%	1.475kΩ	1.475kΩ
29	MON_OP 44 wrt MON_OP 25	INST.LIVE_MON & BAT(-) ST. MON/RCS	1.47kΩ±2%	1.475kΩ	1.475kΩ
30	MON_OP-44 wrt MON_OP 45	INST.LIVE_MON	<100mΩ	41mΩ	45mΩ
31	MON_OP 46 wrt MON_OP 47	28V_BAT/SQB_P & 28V_BAT/SQB_R	2 kΩ±2 %	2.004kΩ	2.004kΩ
32	MON_OP 46 wrt MON_OP 66	28V_BAT/SQB_P & 28V_BAT_MON/SQB_P	<100mΩ	44mΩ	45mΩ
33	MON_OP 47 wrt MON_OP 67	28V_BAT/SQB_R & 28V_BAT_MON/SQB_R	<100mΩ	45mΩ	45mΩ
34	MON_OP 48 wrt MON_OP 49	28V_BAT/VLV_P & 28V_BAT/VLV_R	2 kΩ±2 %	2.004kΩ	2.004kΩ
35	MON_OP 48 wrt MON_OP 68	28V_BAT/VLV_P & 28V_BAT_MON/VLV_P	<100mΩ	48mΩ	45mΩ
36	MON_OP 49 wrt MON_OP 69	28V_BAT/VLV_R & 28V_BAT_MON/VLV_R	<100mΩ	43mΩ	46mΩ
37	MON_OP-61 wrt 62	+/-15V RTN	<100mΩ	48mΩ	45mΩ
38	MON_OP-64 wrt 65	INST RTN	<100mΩ	50mΩ	46mΩ
39	MON_OP 74 wrt chassis	CHASSIS	<150mΩ	116mΩ	115mΩ
40	OP1-1 wrt 2	BAT_RTN/SQB (P-chain, sensor-1)	<100mΩ	44mΩ	47mΩ
41	OP1-1 wrt 3		<150mΩ	110mΩ	110mΩ
42	OP1-1 wrt 4		<150mΩ	110mΩ	109mΩ
43	OP1-1 wrt 5		<150mΩ	109mΩ	108mΩ
44	OP1-1 wrt 6		<150mΩ	112mΩ	107mΩ
45	OP1-1 wrt 7		<150mΩ	106mΩ	108mΩ
46	OP1-1 wrt 8		<150mΩ	110mΩ	107mΩ
47	OP1-1 wrt 21		<150mΩ	111mΩ	113mΩ
48	OP1-1 wrt 22		<150mΩ	116mΩ	111mΩ
49	OP1-1 wrt 23		<150mΩ	110mΩ	111mΩ
50	OP1-1 wrt 24		<150mΩ	112mΩ	110mΩ
51	OP1-1 wrt 25		<150mΩ	113mΩ	110mΩ
52	OP1-1 wrt 26		<150mΩ	108mΩ	109mΩ
53	OP1-1 wrt 27		<150mΩ	108mΩ	109mΩ
54	OP1-1 wrt 28		<150mΩ	109mΩ	109mΩ
55	OP1-1 wrt 40		<150mΩ	112mΩ	112mΩ
56	OP1-1 wrt 41		<150mΩ	117mΩ	113mΩ
57	OP1-1 wrt 42		<150mΩ	112mΩ	115mΩ
58	OP1-1 wrt 43		<150mΩ	118mΩ	116mΩ
59	OP1-1 wrt 44		<150mΩ	118mΩ	120mΩ
60	OP1-1 wrt 45		<150mΩ	120mΩ	117mΩ
61	OP1-1 wrt 46		<150mΩ	125mΩ	119mΩ
62	OP1-1 wrt 47		<150mΩ	120mΩ	119mΩ
63	OP1-1 wrt 60		<150mΩ	115mΩ	113mΩ
64	OP1-1 wrt 61		<150mΩ	113mΩ	118mΩ
65	OP1-1 wrt 62		<150mΩ	114mΩ	118mΩ
66	OP1-1 wrt 63		<150mΩ	117mΩ	117mΩ
67	OP1-1 wrt 64		<150mΩ	124mΩ	127mΩ
68	OP1-1 wrt 65		<150mΩ	126mΩ	127mΩ

69	OP1-1 wrt 66		<150mΩ	133mΩ	127mΩ
70	OP1-1 wrt 67		<150mΩ	126mΩ	126mΩ
71	OP1-10 wrt OP1-30	BAT_RTN/VLV	<100mΩ	45mΩ	44mΩ
72	OP1-12 wrt 13		<150mΩ	49mΩ	47mΩ
73	OP1-12 wrt 14		<150mΩ	45mΩ	46mΩ
74	OP1-12 wrt 15		<150mΩ	49mΩ	46mΩ
75	OP1-12 wrt 16		<150mΩ	50mΩ	46mΩ
76	OP1-12 wrt 17		<150mΩ	45mΩ	46mΩ
77	OP1-12 wrt 18		<150mΩ	49mΩ	46mΩ
78	OP1-12 wrt 19		<150mΩ	50mΩ	47mΩ
79	OP1-12 wrt 20		<150mΩ	46mΩ	47mΩ
80	OP1-12 wrt 32		<150mΩ	44mΩ	46mΩ
81	OP1-12 wrt 33		<150mΩ	47mΩ	47mΩ
82	OP1-12 wrt 34		<150mΩ	45mΩ	45mΩ
83	OP1-12 wrt 35		<150mΩ	46mΩ	45mΩ
84	OP1-12 wrt 36	BAT_RTN/SQB (P-chain, sensor-2)	<150mΩ	49mΩ	45mΩ
85	OP1-12 wrt 37		<150mΩ	45mΩ	45mΩ
86	OP1-12 wrt 38		<150mΩ	47mΩ	46mΩ
87	OP1-12 wrt 39		<150mΩ	48mΩ	46mΩ
88	OP1-12 wrt 51		<150mΩ	49mΩ	45mΩ
89	OP1-12 wrt 52		<150mΩ	45mΩ	46mΩ
90	OP1-12 wrt 53		<150mΩ	46mΩ	45mΩ
91	OP1-12 wrt 54		<150mΩ	47mΩ	45mΩ
92	OP1-12 wrt 55		<150mΩ	44mΩ	47mΩ
93	OP1-12 wrt 56		<150mΩ	44mΩ	45mΩ
94	OP1-12 wrt 57		<150mΩ	51mΩ	45mΩ
95	OP1-12 wrt 58		<150mΩ	46mΩ	46mΩ
96	OP1-12 wrt 59		<150mΩ	46mΩ	46mΩ
97	OP2-1 wrt 2		<100mΩ	49mΩ	49mΩ
98	OP2-1 wrt 3		<100mΩ	49mΩ	49mΩ
99	OP2-1 wrt 4		<100mΩ	63mΩ	52mΩ
100	OP2-1 wrt 5		<100mΩ	49mΩ	49mΩ
101	OP2-1 wrt 6		<100mΩ	44mΩ	48mΩ
102	OP2-1 wrt 7		<100mΩ	48mΩ	49mΩ
103	OP2-1 wrt 8		<100mΩ	56mΩ	51mΩ
104	OP2-1 wrt 21		<100mΩ	44mΩ	48mΩ
105	OP2-1 wrt 22		<100mΩ	49mΩ	48mΩ
106	OP2-1 wrt 23		<100mΩ	56mΩ	48mΩ
107	OP2-1 wrt 24		<100mΩ	45mΩ	48mΩ
108	OP2-1 wrt 25		<100mΩ	51mΩ	48mΩ
109	OP2-1 wrt 26		<100mΩ	42mΩ	48mΩ
110	OP2-1 wrt 27	BAT_RTN/SQB (R-chain, sensor-1)	<100mΩ	47mΩ	48mΩ
111	OP2-1 wrt 28		<100mΩ	55mΩ	49mΩ
112	OP2-1 wrt 40		<150mΩ	51mΩ	48mΩ
113	OP2-1 wrt 41		<150mΩ	43mΩ	47mΩ
114	OP2-1 wrt 42		<150mΩ	51mΩ	47mΩ
115	OP2-1 wrt 43		<150mΩ	54mΩ	48mΩ
116	OP2-1 wrt 44		<150mΩ	41mΩ	47mΩ
117	OP2-1 wrt 45		<150mΩ	50mΩ	48mΩ
118	OP2-1 wrt 46		<150mΩ	51mΩ	48mΩ
119	OP2-1 wrt 47		<150mΩ	42mΩ	47mΩ
120	OP2-1 wrt 60		<150mΩ	49mΩ	49mΩ
121	OP2-1 wrt 61		<150mΩ	43mΩ	50mΩ
122	OP2-1 wrt 62		<150mΩ	46mΩ	47mΩ
123	OP2-1 wrt 63		<150mΩ	54mΩ	48mΩ

124	OP2-1 wrt 64		<150mΩ	49mΩ	48mΩ
125	OP2-1 wrt 65		<150mΩ	47mΩ	47mΩ
126	OP2-1 wrt 66		<150mΩ	50mΩ	48mΩ
127	OP2-1 wrt 67		<150mΩ	46mΩ	48mΩ
128	OP2-10 wrt OP2-30	BAT_RTN/VLV	<100mΩ	49mΩ	48mΩ
129	OP2-12 wrt 13		<100mΩ	63mΩ	53mΩ
130	OP2-12 wrt 14		<100mΩ	50mΩ	50mΩ
131	OP2-12 wrt 15		<100mΩ	46mΩ	51mΩ
132	OP2-12 wrt 16		<100mΩ	48mΩ	50mΩ
133	OP2-12 wrt 17		<100mΩ	53mΩ	51mΩ
134	OP2-12 wrt 18		<100mΩ	44mΩ	49mΩ
135	OP2-12 wrt 19		<100mΩ	45mΩ	50mΩ
136	OP2-12 wrt 20		<100mΩ	52mΩ	51mΩ
137	OP2-12 wrt 32		<150mΩ	47mΩ	50mΩ
138	OP2-12 wrt 33		<150mΩ	57mΩ	51mΩ
139	OP2-12 wrt 34		<150mΩ	40mΩ	48mΩ
140	OP2-12 wrt 35		<150mΩ	52mΩ	50mΩ
141	OP2-12 wrt 36	BAT_RTN/SQB (R-chain, sensor-2)	<150mΩ	44mΩ	50mΩ
142	OP2-12 wrt 37		<150mΩ	55mΩ	50mΩ
143	OP2-12 wrt 38		<150mΩ	53mΩ	51mΩ
144	OP2-12 wrt 39		<150mΩ	58mΩ	50mΩ
145	OP2-12 wrt 51		<150mΩ	48mΩ	49mΩ
146	OP2-12 wrt 52		<150mΩ	53mΩ	48mΩ
147	OP2-12 wrt 53		<150mΩ	43mΩ	48mΩ
148	OP2-12 wrt 54		<150mΩ	43mΩ	48mΩ
149	OP2-12 wrt 55		<150mΩ	50mΩ	49mΩ
150	OP2-12 wrt 56		<150mΩ	46mΩ	49mΩ
151	OP2-12 wrt 57		<150mΩ	49mΩ	50mΩ
152	OP2-12 wrt 58		<150mΩ	56mΩ	50mΩ
153	OP2-12 wrt 59		<150mΩ	50mΩ	51mΩ
154	OP1-49 wrt 50		<150mΩ	42mΩ	43mΩ
155	OP1-49 wrt 69		<150mΩ	38mΩ	44mΩ
156	OP1-49 wrt 70		<150mΩ	38mΩ	43mΩ
157	OP1-49 wrt 71		<150mΩ	69mΩ	62mΩ
158	OP1-49 wrt 72		<150mΩ	67mΩ	62mΩ
159	OP1-49 wrt 73		<150mΩ	61mΩ	61mΩ
160	OP1-49 wrt 74		<150mΩ	61mΩ	62mΩ
161	OP1-49 wrt 75		<150mΩ	53mΩ	60mΩ
162	OP1-49 wrt 76		<150mΩ	67mΩ	61mΩ
163	OP1-49 wrt 77		<150mΩ	55mΩ	59mΩ
164	OP1-49 wrt 78		<150mΩ	60mΩ	59mΩ
165	OP1-49 wrt OP2-49	BAT_RTN/VLV	<150mΩ	52mΩ	52mΩ
166	OP1-49 wrt OP2-50		<150mΩ	45mΩ	51mΩ
167	OP1-49 wrt OP2-69		<150mΩ	46mΩ	52mΩ
168	OP1-49 wrt OP2-70		<150mΩ	51mΩ	52mΩ
169	OP1-49 wrt OP2-71		<150mΩ	59mΩ	65mΩ
170	OP1-49 wrt OP2-72		<150mΩ	64mΩ	65mΩ
171	OP1-49 wrt OP2-73		<150mΩ	63mΩ	65mΩ
172	OP1-49 wrt OP2-74		<150mΩ	65mΩ	65mΩ
173	OP1-49 wrt OP2-75		<150mΩ	62mΩ	65mΩ
174	OP1-49 wrt OP2-76		<150mΩ	58mΩ	65mΩ
175	OP1-49 wrt OP2-77		<150mΩ	60mΩ	65mΩ
176	OP1-49 wrt OP2-78		<150mΩ	69mΩ	63mΩ
177	OP1-1 wrt 12	SQB_RTN-P S1 & S2	<150mΩ	95mΩ	96mΩ
178	OP1-1 wrt OP2-1	SQB_RTN-P S1 & R-S1	<150mΩ	104mΩ	108mΩ

179	OP1-1 wrt OP2-12	SQB RTN-P S1 & R-S2	<150mΩ	88mΩ	96mΩ
180	OP1-11 wrt OP1-31	RCS RTN	<150mΩ	48mΩ	45mΩ
181	OP1-11 wrt OP2-11	RCS RTN	<150mΩ	76mΩ	76mΩ
182	OP1-11 wrt OP2-31	RCS RTN	<150mΩ	79mΩ	76mΩ
183	MON_OP-40 wrt 41	SUPPLY +15V LEM	<100mΩ	48mΩ	46mΩ
184	MON_OP-42 wrt 43	SUPPLY -15V LEM	<100mΩ	44mΩ	45mΩ
185	MON_OP-52 wrt 53	LEM_OP/HF	2 kΩ±2 %	2.001kΩ	2.001kΩ
186	MON_OP-56 wrt 58	LEM_OP/LF	2 kΩ±2 %	2.002kΩ	2.001kΩ
187	MON_OP-55 wrt 70	LEM_OP/HF	2 kΩ±2 %	2.002kΩ	2.001kΩ
188	MON_OP-60 wrt 59	LEM_OP/LF	2 kΩ± 2 %	2.001kΩ	2.001kΩ
189	MON_OP-29 wrt 39	LEM_OP/Valve	4 kΩ± 2 %	4.001kΩ	4.000kΩ
190.	MON_OP- 4 wrt 66	Sqb bat coil wrt TM mon	>100MΩ	>100MΩ	>100MΩ
191.	MON_OP- 8 wrt 68	VLV bat coil wrt TM mon	>100MΩ	>100MΩ	>100MΩ
192.	MON_OP-12 wrt OP111	RCS bat coil wrtRtn	>100MΩ	>100MΩ	>100MΩ
193.	MON_OP-44 wrt 4	Inst Live wrt SQB Bat coil rtn	>100MΩ	>100MΩ	>100MΩ
194.	MON_OP-44 wrt 8	Inst Live wrt VLV-Bat coil rtn	>100MΩ	>100MΩ	>100MΩ
195.	MON_OP-44 wrt 12	Inst Live wrt RCS-Bat coil rtn	>100MΩ	>100MΩ	>100MΩ
196.	MON_OP-44 wrt OP1-1	Inst Live wrtSqbrtn	>100MΩ	>100MΩ	>100MΩ
197.	MON_OP-3 wrt 44	Bat All OFF wrtInst	>100MΩ	>100MΩ	>100MΩ
198.	MON_OP-3 wrt OP1-1	Bat All OFF wrtSqbrtn	>100MΩ	>100MΩ	>100MΩ
199.	MON_OP-4 wrt 61	Sqb bat coil wrt ±15V Rtn	>100MΩ	>100MΩ	>100MΩ
200.	MON_OP-8 wrt 61	VLV bat coil wrt ±15V Rtn	>100MΩ	>100MΩ	>100MΩ
201.	MON_OP-3 wrt 61	Bat All OFF wrt ±15V Rtn	>100MΩ	>100MΩ	>100MΩ
202.	MON_OP-44 wrt 61	Inst Live wrt ±15V Rtn	>100MΩ	>100MΩ	>100MΩ
203.	MON_OP-1 wrt 4	BAT SQB ON COIL	*90 ± 9Ω	92.837 Ω	91,228 Ω
204.	MON_OP-2 wrt 4	BAT SQB OFF COIL		92.682 Ω	91,082 Ω
205.	MON_OP-5 wrt 8	BAT VLV ON COIL	*225 ± 22Ω	231.562 Ω	227.765 Ω
206.	MON_OP-6 wrt 8	BAT VLV OFF COIL		232.509 Ω	228.710 Ω
207.	MON_OP-9 wrt 12	BAT RCS ON COIL	*225 ± 22Ω	229.339 Ω	225.708 Ω
208.	MON_OP-10 wrt 12	BAT RCS OFF COIL		229.909 Ω	226.263 Ω
209.	MON_OP-32 wrt OP1-1	SQB bat rtn-P wrtSqbrtn	<150mΩ	123mΩ	117mΩ
210.	MON_OP-33 wrt OP2-1	SQB bat rtn-R wrtSqbrtn	<150mΩ	93mΩ	96mΩ
211.	MON_OP-35 wrt OP1-49	VLV bat rtn-P wrt VLV rtn	<150mΩ	102mΩ	102mΩ
212.	MON_OP-36 wrt OP1-49	VLV bat rtn-R wrt VLV rtn	<150mΩ	99mΩ	99mΩ
213.	MON_OP-66 wrt 32	SQB bat mon-P wrt bat rtn-P	1 kΩ± 2 %	1.002kΩ	1.002kΩ
214.	MON_OP-67 wrt 33	SQB bat mon-R wrt bat rtn-R	1 kΩ± 2 %	1.002kΩ	1.002kΩ
215.	MON_OP-68 wrt 35	VLV bat mon-P wrt bat rtn-P	1 kΩ± 2 %	1.002kΩ	1.002kΩ
216.	MON_OP-69 wrt 36	VLV bat mon-R wrt bat rtn-R	1 kΩ± 2 %	1.002kΩ	1.002kΩ
217.	OP1-1 wrt OP1-49	SQB RTN wrt VLV RTN	2 kΩ± 2 %	2.000kΩ	2.000kΩ
218.	OP1-1 wrt OP1-11	SQB RTN wrt RCS RTN	2 kΩ± 2 %	2.001kΩ	2.000kΩ
219.	OP1-11 wrt OP1-49	RCS RTN wrt VLV RTN	2 kΩ± 2 %	2.001kΩ	2.000kΩ
220.	All pins with respect to chassis (except pins PB-R-A to J, RB-R-A to J,OP1- 1-8,10-28, 30,31-47, 49-63, 69-78,OP2- 1-8,10-28, 30-47, 49-67, 69-78 & MON OP32,33,35,36,46, 47,48,49,66,67,68,69,74 for which expected value is 1 kΩ □ 2 %)		>100MΩ	>100MΩ	>100MΩ

\*EL415 relays are wired

### List of Connectors in the package

1. PB-R and RB-R=11 pin Male D3899 connector

2.Mon-OP,OP1 and OP2=78 pin Female Connector