

# Checklist of CEM L1101\_FSFRL4

Test report for CEM L110-1 KEK23009

QDTF/TR/1128/2023

## 9.1.5 FSF-RL4 module

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
1	TMR1-1 wrt 9	S/A inputs	<100mΩ	9mΩ	12mΩ
2	TMR2-1 wrt 9	S/A inputs	<100mΩ	9mΩ	10mΩ
3	TMR3-1 wrt 9	S/A inputs	<100mΩ	10mΩ	12mΩ
4	PO-1 wrt PO-2	CMD NO: 1 outputs	1Ω - 1.5Ω	1.218Ω	1.218Ω
5	PO-1 wrt PO-3	CMD NO: 1 outputs	1Ω - 1.5Ω	1.128Ω	1.128Ω
6	PO-1 wrt PO-4	CMD NO: 1 outputs	1Ω - 1.5Ω	1.237Ω	1.237Ω
7	PO-2 wrt PO-3	CMD NO: 1 outputs	1Ω - 1.5Ω	1.186Ω	1.186Ω
8	PO-2 wrt PO-4	CMD NO: 1 outputs	1Ω - 1.5Ω	1.295Ω	1.295Ω
9	PO-3 wrt PO-4	CMD NO: 1 outputs	1Ω - 1.5Ω	1.207Ω	1.206Ω
10	RO-1 wrt RO-2	CMD NO: 1 outputs	1Ω - 1.5Ω	1.348Ω	1.348Ω
11	RO-1 wrt RO-3	CMD NO: 1 outputs	1Ω - 1.5Ω	1.275Ω	1.275Ω
12	RO-1 wrt RO-4	CMD NO: 1 outputs	1Ω - 1.5Ω	1.293Ω	1.292Ω
13	RO-2 wrt RO-3	CMD NO: 1 outputs	1Ω - 1.5Ω	1.305Ω	1.304Ω
14	RO-2 wrt RO-4	CMD NO: 1 outputs	1Ω - 1.5Ω	1.331Ω	1.330Ω
15	RO-3 wrt RO-4	CMD NO: 1 outputs	1Ω - 1.5Ω	1.255Ω	1.254Ω
16	PO-1 wrt RO-1	CMD NO: 1 outputs	>100 MΩ	>100MΩ	>100MΩ
17	PO-5 wrt PO-6	CMD NO: 2 outputs	1Ω - 1.5Ω	1.052Ω	1.052Ω
18	PO-5 wrt PO-7	CMD NO: 2 outputs	1Ω - 1.5Ω	1.098Ω	1.098Ω
19	PO-5 wrt PO-8	CMD NO: 2 outputs	1Ω - 1.5Ω	1.102Ω	1.102Ω
20	PO-6 wrt PO-7	CMD NO: 2 outputs	1Ω - 1.5Ω	1.100Ω	1.099Ω
21	PO-6 wrt PO-8	CMD NO: 2 outputs	1Ω - 1.5Ω	1.104Ω	1.103Ω
22	PO-7 wrt PO-8	CMD NO: 2 outputs	1Ω - 1.5Ω	1.112Ω	1.111Ω
23	RO-5 wrt RO-6	CMD NO: 2 outputs	1Ω - 1.5Ω	1.047Ω	1.047Ω
24	RO-5 wrt RO-7	CMD NO: 2 outputs	1Ω - 1.5Ω	1.064Ω	1.063Ω
25	RO-5 wrt RO-8	CMD NO: 2 outputs	1Ω - 1.5Ω	1.064Ω	1.063Ω
26	RO-6 wrt RO-7	CMD NO: 2 outputs	1Ω - 1.5Ω	1.045Ω	1.044Ω
27	RO-6 wrt RO-8	CMD NO: 2 outputs	1Ω - 1.5Ω	1.041Ω	1.040Ω
28	RO-7 wrt RO-8	CMD NO: 2 outputs	1Ω - 1.5Ω	1.063Ω	1.061Ω
29	PO-5 wrt RO-5	CMD NO: 2 outputs	>100 MΩ	>100MΩ	>100MΩ
30	PO-9 wrt PO-10	CMD NO: 3 outputs	0.3Ω - 0.8Ω	414mΩ	414mΩ
31	PO-9 wrt PO-11	CMD NO: 3 outputs	0.3Ω - 0.8Ω	450mΩ	450mΩ
32	PO-9 wrt PO-12	CMD NO: 3 outputs	0.3Ω - 0.8Ω	467mΩ	467mΩ
33	PO-10 wrt PO-11	CMD NO: 3 outputs	0.3Ω - 0.8Ω	444mΩ	445mΩ
34	PO-10 wrt PO-12	CMD NO: 3 outputs	0.3Ω - 0.8Ω	472mΩ	472mΩ
35	PO-11 wrt PO-12	CMD NO: 3 outputs	0.3Ω - 0.8Ω	508mΩ	508mΩ
36	RO-9 wrt RO-10	CMD NO: 3 outputs	0.3Ω - 0.8Ω	502mΩ	501mΩ
37	RO-9 wrt RO-11	CMD NO: 3 outputs	0.3Ω - 0.8Ω	472mΩ	470mΩ
38	RO-9 wrt RO-12	CMD NO: 3 outputs	0.3Ω - 0.8Ω	492mΩ	491mΩ
39	RO-10 wrt RO-11	CMD NO: 3 outputs	0.3Ω - 0.8Ω	471mΩ	470mΩ
40	RO-10 wrt RO-12	CMD NO: 3 outputs	0.3Ω - 0.8Ω	512mΩ	512mΩ

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
41	RO-11 wrt RO-12	CMD NO: 3 outputs	0.3Ω - 0.8Ω	482mΩ	481mΩ
42	PO-9 wrt RO-9	CMD NO: 3 outputs	>100MΩ	>100MΩ	>100MΩ
43	PO-13 wrt PO-14	CMD NO: 4 outputs	0.5Ω - 1Ω	774mΩ	773mΩ
44	PO-13 wrt PO-15	CMD NO: 4 outputs	0.5Ω - 1Ω	745mΩ	745mΩ
45	PO-13 wrt PO-16	CMD NO: 4 outputs	0.5Ω - 1Ω	774mΩ	773mΩ
46	PO-14 wrt PO-15	CMD NO: 4 outputs	0.5Ω - 1Ω	776mΩ	776mΩ
47	PO-14 wrt PO-16	CMD NO: 4 outputs	0.5Ω - 1Ω	804mΩ	804mΩ
48	PO-15 wrt PO-16	CMD NO: 4 outputs	0.5Ω - 1Ω	749mΩ	749mΩ
49	RO-13 wrt RO-14	CMD NO: 4 outputs	0.4Ω - 0.9Ω	550mΩ	550mΩ
50	RO-13 wrt RO-15	CMD NO: 4 outputs	0.4Ω - 0.9Ω	608mΩ	607mΩ
51	RO-13 wrt RO-16	CMD NO: 4 outputs	0.4Ω - 0.9Ω	557mΩ	557mΩ
52	RO-14 wrt RO-15	CMD NO: 4 outputs	0.4Ω - 0.9Ω	620mΩ	619mΩ
53	RO-14 wrt RO-16	CMD NO: 4 outputs	0.4Ω - 0.9Ω	569mΩ	569mΩ
54	RO-15 wrt RO-16	CMD NO: 4 outputs	0.4Ω - 0.9Ω	510mΩ	509mΩ
55	PO-13 wrt RO-13	CMD NO: 4 outputs	> 100MΩ	>100MΩ	>100MΩ
56	TMR1-1 wrt TMR1-2	CMD NO: 1	311Ω ± 31Ω	296.766Ω	296.588Ω
57	TMR2-1 wrt TMR2-2	CMD NO: 1	311Ω ± 31Ω	295.252Ω	295.040Ω
58	TMR3-1 wrt TMR3-2	CMD NO: 1	311Ω ± 31Ω	298.517Ω	298.231Ω
59	TMR1-1 wrt TMR1-3	CMD NO: 2	311Ω ± 31Ω	295.831Ω	295.499Ω
60	TMR2-1 wrt TMR2-3	CMD NO: 2	311Ω ± 31Ω	297.803Ω	297.607Ω
61	TMR3-1 wrt TMR3-3	CMD NO: 2	311Ω ± 31Ω	297.738Ω	297.433Ω
62	TMR1-1 wrt TMR1-4	CMD NO: 3	311Ω ± 31Ω	305.727Ω	305.568Ω
63	TMR2-1 wrt TMR2-4	CMD NO: 3	311Ω ± 31Ω	296.891Ω	296.647Ω
64	TMR3-1 wrt TMR3-4	CMD NO: 3	311Ω ± 31Ω	296.656Ω	296.438Ω
65	TMR1-1 wrt TMR1-5	CMD NO: 4	311Ω ± 31Ω	296.065Ω	295.804Ω
66	TMR2-1 wrt TMR2-5	CMD NO: 4	311Ω ± 31Ω	295.341Ω	295.037Ω
67	TMR3-1 wrt TMR3-5	CMD NO: 4	311Ω ± 31Ω	296.529Ω	296.412Ω
68	TMR1-1 wrt TMR2-1	Isolation between coil lives	> 100MΩ	>100MΩ	>100MΩ
69	TMR2-1 wrt TMR3-1	Isolation between coil lives	> 100MΩ	>100MΩ	>100MΩ
70	TMR1-1 wrt TMR3-1	Isolation between coil lives	>100MΩ	>100MΩ	>100MΩ
71	TMR1-1 wrt MON-1	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
72	TMR1-1 wrt MON-2	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
73	TMR1-1 wrt MON-3	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
74	TMR1-1 wrt MON-4	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
75	TMR1-1 wrt PO-1	Coil live wrt CMD NO: 1 Output	> 100MΩ	>100MΩ	>100MΩ
76	TMR1-1 wrt RO-1	Coil live wrt CMD NO: 1 Output	> 100MΩ	>100MΩ	>100MΩ
77	TMR1-1 wrt *PO-40	Coil live wrt Contact i/p-P	> 100MΩ	>100MΩ	>100MΩ
78	TMR1-1 wrt *RO-40	Coil live wrt Contact i/p-R	> 100MΩ	>100MΩ	>100MΩ
79	TMR1-1 wrt MON-5	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
80	TMR1-1 wrt MON-6	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
81	TMR1-1 wrt MON-7	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
82	TMR1-1 wrt MON-8	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
83	TMR1-1 wrt PO-5	Coil live wrt CMD NO: 2 o/p	> 100MΩ	>100MΩ	>100MΩ
84	TMR1-1 wrt RO-5	Coil live wrt CMD NO: 2 o/p	> 100MΩ	>100MΩ	>100MΩ
85	TMR1-1 wrt MON-9	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
86	TMR1-1 wrt MON-10	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
87	TMR1-1 wrt MON-11	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
88	TMR1-1 wrt MON-12	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
89	TMR1-1 wrt PO-9	Coil live wrt CMD NO: 3 o/p	> 100MΩ	>100MΩ	>100MΩ
90	TMR1-1 wrt RO-9	Coil live wrt CMD NO: 3 o/p	> 100MΩ	>100MΩ	>100MΩ
91	TMR1-1 wrt MON-13	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
92	TMR1-1 wrt MON-14	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
93	TMR1-1 wrt MON-15	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
94	TMR1-1 wrt MON-16	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
95	TMR1-1 wrt PO-13	Coil live wrt CMD NO: 4 o/p	> 100MΩ	>100MΩ	>100MΩ
96	TMR1-1 wrt. RO-13	Coil live wrt CMD NO: 4 o/p	> 100MΩ	>100MΩ	>100MΩ
97	TMR2-1 wrt MON-1	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
98	TMR2-1 wrt MON-2	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
99	TMR2-1 wrt MON-3	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
100	TMR2-1 wrt MON-4	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
101	TMR2-1 wrt PO-1	Coil live wrt CMD NO: 1 Output	> 100MΩ	>100MΩ	>100MΩ
102	TMR2-1 wrt RO-1	Coil live wrt CMD NO: 1 Output	> 100MΩ	>100MΩ	>100MΩ
103	TMR2-1 wrt *PO-40	Coil live wrt Contact i/p-P	> 100MΩ	>100MΩ	>100MΩ
104	TMR2-1 wrt *RO-40	Coil live wrt Contact i/p-R	> 100MΩ	>100MΩ	>100MΩ
105	TMR2-1 wrt MON-5	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
106	TMR2-1 wrt MON-6	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
107	TMR2-1 wrt MON-7	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
108	TMR2-1 wrt MON-8	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
109	TMR2-1 wrt PO-5	Coil live wrt CMD NO: 2 o/p	> 100MΩ	>100MΩ	>100MΩ
110	TMR2-1 wrt RO-5	Coil live wrt CMD NO: 2 o/p	> 100MΩ	>100MΩ	>100MΩ
111	TMR2-1 wrt MON-9	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
112	TMR2-1 wrt MON-10	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
113	TMR2-1 wrt MON-11	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
114	TMR2-1 wrt MON-12	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
115	TMR2-1 wrt PO-9	Coil live wrt CMD NO: 3 o/p	> 100MΩ	>100MΩ	>100MΩ
116	TMR2-1 wrt RO-9	Coil live wrt CMD NO: 3 o/p	> 100MΩ	>100MΩ	>100MΩ
117	TMR2-1 wrt MON-13	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
118	TMR2-1 wrt MON-14	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
119	TMR2-1 wrt MON-15	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
120	TMR2-1 wrt MON-16	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
121	TMR2-1 wrt PO-13	Coil live wrt CMD NO: 4 o/p	> 100MΩ	>100MΩ	>100MΩ
122	TMR2-1 wrt. RO-13	Coil live wrt CMD NO: 4 o/p	> 100MΩ	>100MΩ	>100MΩ
123	TMR3-1 wrt MON-1	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
124	TMR3-1 wrt MON-2	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
125	TMR3-1 wrt MON-3	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
126	TMR3-1 wrt MON-4	Coil live wrt CMD NO: 1 Midpoints	> 100MΩ	>100MΩ	>100MΩ
127	TMR3-1 wrt PO-1	Coil live wrt CMD NO: 1 Output	> 100MΩ	>100MΩ	>100MΩ
128	TMR3-1 wrt RO-1	Coil live wrt CMD NO: 1 Output	> 100MΩ	>100MΩ	>100MΩ
129	TMR3-1 wrt *PO-40	Coil live wrt Contact i/p-P	> 100MΩ	>100MΩ	>100MΩ
130	TMR3-1 wrt *RO-40	Coil live wrt Contact i/p-R	> 100MΩ	>100MΩ	>100MΩ
131	TMR3-1 wrt MON-5	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
132	TMR3-1 wrt MON-6	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
133	TMR3-1 wrt MON-7	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
134	TMR3-1 wrt MON-8	Coil live wrt CMD NO: 2 Midpoints	> 100MΩ	>100MΩ	>100MΩ
135	TMR3-1 wrt PO-5	Coil live wrt CMD NO: 2 o/p	> 100MΩ	>100MΩ	>100MΩ
136	TMR3-1 wrt RO-5	Coil live wrt CMD NO: 2 o/p	> 100MΩ	>100MΩ	>100MΩ
137	TMR3-1 wrt MON-9	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
138	TMR3-1 wrt MON-10	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
139	TMR3-1 wrt MON-11	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
140	TMR3-1 wrt MON-12	Coil live wrt CMD NO: 3 Midpoints	> 100MΩ	>100MΩ	>100MΩ
141	TMR3-1 wrt PO-9	Coil live wrt CMD NO: 3 o/p	> 100MΩ	>100MΩ	>100MΩ
142	TMR3-1 wrt RO-9	Coil live wrt CMD NO: 3 o/p	> 100MΩ	>100MΩ	>100MΩ
143	TMR3-1 wrt MON-13	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
144	TMR3-1 wrt MON-14	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
145	TMR3-1 wrt MON-15	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
146	TMR3-1 wrt MON-16	Coil live wrt CMD NO: 4 Midpoints	> 100MΩ	>100MΩ	>100MΩ
147	TMR3-1 wrt PO-13	Coil live wrt CMD NO: 4 o/p	> 100MΩ	>100MΩ	>100MΩ
148	TMR3-1 wrt. RO-13	Coil live wrt CMD NO: 4 o/p	> 100MΩ	>100MΩ	>100MΩ
149	*PO-40 wrt MON-1	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
150	*PO-40 wrt MON-2	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
151	*PO-40 wrt MON-3	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
152	*PO-40 wrt MON-4	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
153	*PO-40 wrt MON-5	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
154	*PO-40 wrt MON-6	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
155	*PO-40 wrt MON-7	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
156	*PO-40 wrt MON-8	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
157	*PO-40 wrt MON-9	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
158	*PO-40 wrt MON-10	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
159	*PO-40 wrt MON-11	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
160	*PO-40 wrt MON-12	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
161	*PO-40 wrt MON-13	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
162	*PO-40 wrt MON-14	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
163	*PO-40 wrt MON-15	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
164	*PO-40 wrt MON-16	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
165	*PO-40 wrt MON-17	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
166	*PO-40 wrt MON-18	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
167	*PO-40 wrt MON-19	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
168	*PO-40 wrt MON-20	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
169	*PO-40 wrt TMR1-1	Contact i/p wrt Coil1 live	> 100MΩ	>100MΩ	>100MΩ
170	*PO-40 wrt TMR2-1	Contact i/p wrt Coil2 live	> 100MΩ	>100MΩ	>100MΩ
171	*PO-40 wrt TMR3-1	Contact i/p wrt Coil3 live	> 100MΩ	>100MΩ	>100MΩ
172	*PO-40 wrt PO-1	Contact i/p wrt CMD NO:1 o/ps-P	> 100MΩ	>100MΩ	>100MΩ
173	*PO-40 wrt PO-5	Contact i/p wrt CMD NO:2 o/ps-P	> 100MΩ	>100MΩ	>100MΩ
174	*PO-40 wrt PO-9	Contact i/p wrt CMD NO:3 o/ps-P	> 100MΩ	>100MΩ	>100MΩ
175	*PO-40 wrt PO-13	Contact i/p wrt CMD NO:4 o/ps-P	> 100MΩ	>100MΩ	>100MΩ
176	*PO-40 wrt PO-15	Contact i/p wrt CMD NO:4 o/ps-P	> 100MΩ	>100MΩ	>100MΩ
177	*PO-40 wrt RO-1	Contact i/p wrt CMD NO:1 o/ps-R	> 100MΩ	>100MΩ	>100MΩ
178	*PO-40 wrt RO-5	Contact i/p wrt CMD NO:2 o/ps-R	> 100MΩ	>100MΩ	>100MΩ
179	*PO-40 wrt RO-9	Contact i/p wrt CMD NO:3 o/ps-R	> 100MΩ	>100MΩ	>100MΩ
180	*PO-40 wrt RO-13	Contact i/p wrt CMD NO:4 o/ps-R	> 100MΩ	>100MΩ	>100MΩ
181	*RO-40 wrt MON-1	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
182	*RO-40 wrt MON-2	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
183	*RO-40 wrt MON-3	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
184	*RO-40 wrt MON-4	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
185	*RO-40 wrt MON-5	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
186	*RO-40 wrt MON-6	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
187	*RO-40 wrt MON-7	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
188	*RO-40 wrt MON-8	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
189	*RO-40 wrt MON-9	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
190	*RO-40 wrt MON-10	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
191	*RO-40 wrt MON-11	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
192	*RO-40 wrt MON-12	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
193	*RO-40 wrt MON-13	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
194	*RO-40 wrt MON-14	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
195	*RO-40 wrt MON-16	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
196	*RO-40 wrt MON-17	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
197	*RO-40 wrt MON-18	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
198	*RO-40 wrt MON-19	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
199	*RO-40 wrt MON-20	Contact i/p wrt Midpoints	> 100MΩ	>100MΩ	>100MΩ
200	*RO-40 wrt TMR1-1	Contact i/p wrt Coil1 live	> 100MΩ	>100MΩ	>100MΩ
201	*RO-40 wrt TMR2-1	Contact i/p wrt Coil2 live	> 100MΩ	>100MΩ	>100MΩ
202	*RO-40 wrt TMR3-1	Contact i/p wrt Coil3 live	> 100MΩ	>100MΩ	>100MΩ
203	*RO-40 wrt PO-1	Contact i/p wrt CMD NO:1 o/ps-P	> 100MΩ	>100MΩ	>100MΩ
204	*RO-40 wrt PO-5	Contact i/p wrt CMD NO:2 o/ps-P	> 100MΩ	>100MΩ	>100MΩ
205	*RO-40 wrt PO-9	Contact i/p wrt CMD NO:3 o/ps-P	> 100MΩ	>100MΩ	>100MΩ
206	*RO-40 wrt PO-13	Contact i/p wrt CMD NO:4 o/ps-P	> 100MΩ	>100MΩ	>100MΩ
207	*RO-40 wrt RO-1	Contact i/p wrt CMD NO:1 o/ps-R	> 100MΩ	>100MΩ	>100MΩ
208	*RO-40 wrt RO-5	Contact i/p wrt CMD NO:2 o/ps-R	> 100MΩ	>100MΩ	>100MΩ

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
209	*RO-40 wrt RO-9	Contact i/p wrt CMD NO:3 o/ps-R	> 100M $\Omega$	>100M $\Omega$	>100M $\Omega$
210	*RO-40 wrt RO-13	Contact i/p wrt CMD NO:4 o/ps-R	> 100M $\Omega$	>100M $\Omega$	>100M $\Omega$
211	All pins with respect to chassis	-	>100M $\Omega$	>100M $\Omega$	>100M $\Omega$
212	All connector mounting posts wrt chassis		<100m $\Omega$	<100m $\Omega$	<100m $\Omega$

\* PO-40,RO-40 are connectors of BAT-LIVE module

### List of Connectors in the package

1. TMR1,TMR2 and TMR3=15 pin Male

2.PO,RO and MON =25 pin Female