

Checklist of CEM TCM L110_L110CVF

L110 CVF CARD

SL No.	Pin Details	Expected	Observed	
			ISRC	FSRC
1.	TMR1-1 wrt TMR2-3	>100MΩ	>100MΩ	>100MΩ
2.	TMR2-3 wrt TMR3-3	>100MΩ	>100MΩ	>100MΩ
3.	TMR1-3 wrt TMR3-3	>100MΩ	>100MΩ	>100MΩ
4.	TMR1-3 wrt TMR2-3	>100MΩ	>100MΩ	>100MΩ
5.	TMR1-3 wrt TMR1-1	>100MΩ	>100MΩ	>100MΩ
6.	TMR1-3 wrt TMR2-1	>100MΩ	>100MΩ	>100MΩ
7.	TMR1-3 wrt TMR3-1	>100MΩ	>100MΩ	>100MΩ
8.	TMR1-3 wrt TMR1-23	>100MΩ	>100MΩ	>100MΩ
9.	TMR1-3 wrt PO-7,9	>100MΩ	>100MΩ	>100MΩ
10.	TMR1-3 wrt PO-18,19	>100MΩ	>100MΩ	>100MΩ
11.	TMR1-3 wrt TMR1-25	>100MΩ	>100MΩ	>100MΩ
12.	TMR2-3 wrt TMR1-1	>100MΩ	>100MΩ	>100MΩ
13.	TMR2-3 wrt TMR2-1	>100MΩ	>100MΩ	>100MΩ
14.	TMR2-3 wrt TMR3-1	>100MΩ	>100MΩ	>100MΩ
15.	TMR2-3 wrt TMR1-23	>100MΩ	>100MΩ	>100MΩ
16.	TMR2-3 wrt PO-7,9	>100MΩ	>100MΩ	>100MΩ
17.	TMR2-3 wrt PO-18,19	>100MΩ	>100MΩ	>100MΩ
18.	TMR2-3 wrt TMR1-25	>100MΩ	>100MΩ	>100MΩ
19.	TMR3-3 wrt TMR1-1	>100MΩ	>100MΩ	>100MΩ
20.	TMR3-3 wrt TMR2-1	>100MΩ	>100MΩ	>100MΩ
21.	TMR3-3 wrt TMR3-1	>100MΩ	>100MΩ	>100MΩ
22.	TMR3-3 wrt TMR1-23	>100MΩ	>100MΩ	>100MΩ
23.	TMR3-3 wrt PO-7,9	>100MΩ	>100MΩ	>100MΩ
24.	TMR3-3 wrt PO-18,19	>100MΩ	>100MΩ	>100MΩ
25.	TMR3-3 wrt TMR1-25	>100MΩ	>100MΩ	>100MΩ
26.	TMR1-1 wrt TMR2-1	>100MΩ	>100MΩ	>100MΩ
27.	TMR3-1 wrt TMR2-1	>100MΩ	>100MΩ	>100MΩ
28.	TMR1-1 wrt TMR1-23	>100MΩ	>100MΩ	>100MΩ
29.	TMR3-1 wrt TMR1-23	>100MΩ	>100MΩ	>100MΩ
30.	TMR1-1 wrt PO-7,9	>100MΩ	>100MΩ	>100MΩ
31.	TMR1-1 wrt PO-18,19	>100MΩ	>100MΩ	>100MΩ
32.	TMR3-1 wrt PO-7,9	>100MΩ	>100MΩ	>100MΩ
33.	TMR3-1 wrt PO-18,19	>100MΩ	>100MΩ	>100MΩ
34.	TMR2-1 wrt TMR1-23	>100MΩ	>100MΩ	>100MΩ
35.	TMR2-1 wrt PO-7,9	>100MΩ	>100MΩ	>100MΩ
36.	TMR2-1 wrt PO-18,19	>100MΩ	>100MΩ	>100MΩ
37.	PO-34 wrt TMR1-25	>100MΩ	>100MΩ	>100MΩ
38.	TMR2-1 wrt TMR3-25	<100mΩ	17mΩ	16mΩ
39.	TMR2-1 wrt PO 23	1.47 kΩ ± 1%	1.475kΩ	1.475kΩ
40.	PO 23 wrt PO - 24	2 kΩ ± 1%	2.005kΩ	2.005kΩ
41.	PO 23 wrt PO - 25	2 kΩ ± 1%	2.004kΩ	2.004kΩ
42.	PO 24 wrt PO - 25	2 kΩ ± 1%	2.003kΩ	2.003kΩ
43.	TMR1-1 wrt TMR1-2	<100mΩ	7mΩ	6mΩ

44.	TMR3-1 wrt TMR3-2	<100mΩ	7mΩ	5mΩ
45.	TMR1-23 wrt TMR1-24	<100mΩ	8mΩ	5mΩ
46.	TMR1-23 wrt TMR2-23	<100mΩ	11mΩ	11mΩ
47.	TMR1-23 wrt TMR2-24	<100mΩ	14mΩ	12mΩ
48.	TMR1-23 wrt PO 34 to 41	<100mΩ	9mΩ	9mΩ
49.	TMR1-23 wrt RO 34 to 41	<100mΩ	10mΩ	8mΩ
50.	TMR1-3 wrt TMR1-4	<100mΩ	8mΩ	7mΩ
51.	TMR2-3 wrt TMR2-4	<100mΩ	7mΩ	8mΩ
52.	TMR3-3 wrt TMR3-4	<100mΩ	9mΩ	7mΩ
53.	TMR1-25 wrt TMR2-25	<100mΩ	16mΩ	14mΩ
54.	PO -1 wrt RO -1	<100mΩ	43mΩ	43mΩ
55.	PO-1 wrt PO-2	2-2.5Ω	2.055Ω	2.055Ω
56.	PO 1 wrt PO 26	17.40kΩ ± 2% +500mΩ(max)	17.650kΩ	17.650kΩ
57.	PO 26 wrt PO 34	2.131kΩ ± 2%	2.135kΩ	2.135kΩ
58.	PO 34 wrt RO 34	<100mΩ	6mΩ	6mΩ
58.	PO 2 & RO 2	<100mΩ	38mΩ	38mΩ
59.	RO 2 & RO 26	17.40kΩ ± 2% +500mΩ(max)	17.651kΩ	17.650kΩ
60.	RO 26 wrt RO 35	2.131kΩ ± 2%	2.132kΩ	2.132kΩ
61.	PO 35 wrt RO 35	<100mΩ	6mΩ	6mΩ
62.	PO 3 wrt RO 3	<100mΩ	45mΩ	45mΩ
63.	PO 4 wrt RO 4	<100mΩ	46mΩ	46mΩ
64.	PO 3 wrt PO 27	17.40kΩ ± 2% +500mΩ(max)	17.663kΩ	17.663kΩ
65.	PO 27 wrt PO 36	2.131kΩ ± 2%	2.133kΩ	2.133kΩ
66.	PO 36 wrt RO 36	<100mΩ	6mΩ	6mΩ
67.	RO 4 wrt RO 27	17.40kΩ ± 2% +500mΩ(max)	17.664kΩ	17.663kΩ
68.	RO 27 wrt RO 37	2.131kΩ ± 2%	2.131kΩ	2.131kΩ
69.	PO 37 wrt RO 37	<100mΩ	6mΩ	6mΩ
70.	PO-3 wrt PO-4	3 -3.5 Ω	3.081Ω	3.081Ω
71.	PO-5 wrt PO-6	3 - 3.5 Ω	3.114Ω	3.115Ω
72.	PO 5 wrt RO 5	<100mΩ	71mΩ	71mΩ
73.	PO-6 wrt RO-6	<100mΩ	46mΩ	47mΩ
74.	PO- 5 wrt PO-28	17.40kΩ ± 2% +500mΩ (max)	17.652kΩ	17.651kΩ
75.	PO-28 wrt PO-38	2.131kΩ ± 2%	2.131kΩ	2.131kΩ
76.	PO- 38 wrt RO-38	<100mΩ	6mΩ	6mΩ
77.	RO- 6 wrt RO-28	17.40kΩ ± 2% +500mΩ(max)	17.655kΩ	17.655kΩ
78.	RO-28 wrt RO-39	2.131kΩ ± 2%	2.132kΩ	2.133kΩ
79.	PO 39 wrt RO 39	<100mΩ	6mΩ	6mΩ
80.	PO 18 wrt RO 18	<500mΩ	368mΩ	371mΩ
81.	PO-7 wrt RO-7	<100mΩ	83mΩ	84mΩ
82.	PO-19 wrt PO-20	<100mΩ	5mΩ	5mΩ

83.	PO-19 wrt RO-19	<500mΩ	208mΩ	210mΩ
84.	PO-19 wrt RO-20	<500mΩ	206mΩ	208mΩ
85.	PO-9 wrt PO-10	<100mΩ	7mΩ	7mΩ
86.	PO-9 wrt PO-11	<100mΩ	9mΩ	8mΩ
87.	PO-9 wrt PO-12	<100mΩ	10mΩ	10mΩ
88.	PO-9 wrt RO-9	<100mΩ	77mΩ	77mΩ
89.	PO-9 wrt RO-10	<100mΩ	78mΩ	78mΩ
90.	PO-9 wrt RO-11	<100mΩ	79mΩ	79mΩ
91.	PO-9 wrt RO-12	<100mΩ	80mΩ	80mΩ
92.	PO-8 wrt RO-8	<100mΩ	56mΩ	56mΩ
93.	PO-8 wrt PO-29	33.2 kΩ ± 2%	33.211kΩ	33.209kΩ
94.	PO-29 wrt PO-40	2.2 kΩ ± 2%	2.199kΩ	2.200kΩ
95.	PO-40 wrt RO-40	<100mΩ	6mΩ	6mΩ
96.	PO-41 wrt PO-42 to 50	<100mΩ	6mΩ	6mΩ
97.	PO-41 wrt RO-41 to 50	<100mΩ	6mΩ	6mΩ
98.	PO-21 wrt PO-22	<100mΩ	6mΩ	5mΩ
99.	PO-21 wrt RO-21,22	<500mΩ	185mΩ	186mΩ
100.	PO-13 wrt PO-14 to 16	<100mΩ	9mΩ	9mΩ
101.	PO-13 wrt RO-13 to 16	<100mΩ	91mΩ	91mΩ
102.	PO-30 wrt RO-30	<500mΩ	282mΩ	285mΩ
103.	PO-31 wrt RO-31	<100mΩ	74mΩ	74mΩ
104.	TMR1-3 wrt TMR1-7	225 ± 22.5Ω / 360± 36 Ω	359.694Ω	362.683Ω
105.	TMR2-3 wrt TMR2-7	225 ± 22.5Ω/ 360± 36 Ω	356.519Ω	359.503Ω
106.	TMR3-3 wrt TMR3-7	300± 30 Ω/ 600± 60 Ω	599.295Ω	604.299Ω
107.	TMR1-3 wrt TMR1-8	320± 32 Ω	311.341Ω	313.963Ω
108.	TMR2-3 wrt TMR2-8	320± 32 Ω	315.373Ω	318.036Ω
109.	TMR3-3 wrt TMR3-8	320± 32 Ω	312.380Ω	314.970Ω
110.	TMR1-3 wrt TMR1-9	320± 32 Ω	318.595Ω	321.042Ω
111.	TMR2-3 wrt TMR2-9	320± 32 Ω	315.965Ω	318.547Ω
112.	TMR3-3 wrt TMR3-9	320± 32 Ω	315.650Ω	318.264Ω
113.	TMR1-3 wrt TMR1-10	900± 90 Ω	901.181Ω	908.737Ω
114.	TMR2-3 wrt TMR2-10	900± 90 Ω	906.812Ω	914.402Ω
115.	TMR3-3 wrt TMR3-10	900± 90 Ω	901.944Ω	909.465Ω
116.	TMR1-3 wrt TMR1-11	320± 32 Ω	316.085Ω	318.692Ω
117.	TMR2-3 wrt TMR2-11	320± 32 Ω	309.431Ω	312.052Ω
118.	TMR3-3 wrt TMR3-11	320± 32 Ω	318.531Ω	321.194Ω
119.	TMR1-3 wrt TMR1-12	900± 90 Ω	915.314Ω	923.123Ω
120.	TMR2-3 wrt TMR2-12	900± 90 Ω	911.178Ω	919.044Ω

121.	TMR3-3 wrt TMR3-12	900± 90 Ω	913.752Ω	921.590Ω
122.	TMR1-20 wrt TMR1-21	900± 90 Ω	918.728Ω	926.567Ω
123.	TMR1-3 wrt TMR1-13	900± 90 Ω	899.552Ω	906.628Ω
124.	TMR2-3 wrt TMR2-13	900± 90 Ω	918.942Ω	926.671Ω
125.	TMR3-3 wrt TMR3-13	900± 90 Ω	922.282Ω	930.174Ω
126.	TMR2-20 wrt TMR2-21	900± 90 Ω	908.693Ω	916.430Ω
127.	TMR1-3 wrt TMR1-5	900± 90 Ω	917.260Ω	925.104Ω
128.	TMR2-3 wrt TMR2-5	900± 90 Ω	913.207Ω	921.023Ω
129.	TMR3-3 wrt TMR3-5	900± 90 Ω	921.934Ω	929.789Ω
130.	All pins wrt chassis	>100MΩ	>100MΩ	>100MΩ
131.	Connector mounting post (TMR1, TMR2, TMR3, PO, RO) wrt chassis	<100mΩ	<100mΩ	<100mΩ

List of Connectors in the package
1. TMR1,TMR2 and TMR3=25M
2.PO and RO=50F

50V Insulation Test

SL NO.	Connector Pins	Description	SPEC >100MΩ	
			ISRC	FSRC
1	KM1.6 & KF1.18	28V Return w.r.t. 28V ₁ Return	2.09x 10 ⁰⁹ Ω	9.17x 10 ⁰⁹ Ω
2	KM1.6 & KF2.18	28V Return w.r.t. 28V ₃ Return	1.80x 10 ⁰⁹ Ω	9.41x 10 ⁰⁹ Ω
3	KM1.6 & KF3.18	28V Return w.r.t. 28V ₅ Return	4.69x 10 ⁰⁹ Ω	8.76x 10 ⁰⁹ Ω
4	KM2.6 & KF1.18	28V Return w.r.t. 28V ₁ Return	6.89x 10 ⁰⁹ Ω	7.56x 10 ⁰⁹ Ω
5	KM2.6 & KF2.18	28V Return w.r.t. 28V ₃ Return	1.01x 10 ¹⁰ Ω	7.20x 10 ⁰⁹ Ω
6	KM2.6 & KF3.18	28V Return w.r.t. 28V ₅ Return	4.18 x 10 ¹⁰ Ω	5x 10 ¹⁰ Ω
7	KM3.6 & KF1.18	28V Return w.r.t. 28V ₁ Return	2.26x 10 ¹⁰ Ω	4.87x 10 ¹⁰ Ω
8	KM3.6 & KF2.18	28V Return w.r.t. 28V ₃ Return	2.05x 10 ¹⁰ Ω	4.25x 10 ¹⁰ Ω
9	KM3.6 & KF3.18	28V Return w.r.t. 28V ₅ Return	1.73x 10 ¹⁰ Ω	6.93x 10 ¹⁰ Ω
10	KF1.18 & KF2.18	28V ₁ Return w.r.t. 28V ₃ Return	5.61x 10 ⁰⁹ Ω	2.99x 10 ¹⁰ Ω
11	KF1.18 & KF3.18	28V ₁ Return w.r.t.28V ₅ Return	4.64x 10 ⁰⁹ Ω	2.55x 10 ¹⁰ Ω
12	KF2.18 & KF3.18	28V ₃ Return w.r.t. 28V ₅ Return	9.42x 10 ⁰⁹ Ω	2.28x 10 ¹⁰ Ω
13	KM1.6 & KM1.5	28V Input Return w.r.t. Chassis	3.82x 10 ⁰⁹ Ω	7.18x 10 ¹⁰ Ω
14	KM2.6 & KM2.5	28V Input Return w.r.t. Chassis	8.32x 10 ⁰⁹ Ω	6.55x 10 ⁰⁹ Ω
15	KM3.6 & KM3.5	28V Input Return w.r.t. Chassis	1.75x 10 ¹⁰ Ω	8.84x 10 ⁰⁹ Ω
16	KF1.18 & KF1.50	28V ₁ Return w.r.t. Chassis	5.98x 10 ⁰⁹ Ω	3.01x 10 ¹⁰ Ω
17	KF2.18 & KF2.50	28V ₃ Return w.r.t. Chassis	7.53x 10 ⁰⁹ Ω	2.39x 10 ¹⁰ Ω
18	KF3.18 & KF3.50	28V ₅ Return w.r.t. Chassis	1.60x 10 ¹⁰ Ω	2.49x 10 ¹⁰ Ω