

# Checklist of CEM L1102\_TSF DIODE

Test report for CEM L110-2 FM07

QDTF/TR/543/2023

## 12 Annexure-5 - TSF-Diode Results **List of Connectors in the package**

1. KF1,KF2=50 pin Female

2.KM1,KM2=50 pin Male

### 12.1 Isolation Checks

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
1	KF1-1 wrt KF1-2 to 34, All pins of KF2, KM1, KM2 except KM1-1	Cathode 1	>100MΩ	>100MΩ	>100MΩ
2	KF1-2 wrt KF1-3 to 34, All pi-ns of KF2, KM1, KM2 except KM1-2	Cathode 2	>100MΩ	>100MΩ	>100MΩ
3	KF1-3 wrt KF1-4 to 34, All pins of KF2, KM1, KM2 except KM1-3	Cathode 3	>100MΩ	>100MΩ	>100MΩ
4	KF1-4 wrt KF1-5 to 34, All pins of KF2, KM1, KM2 except KM1-4	Cathode 4	>100MΩ	>100MΩ	>100MΩ
5	KF1-5 wrt KF1-6 to 34, All pins of KF2, KM1, KM2 except KM1-5	Cathode 5	>100MΩ	>100MΩ	>100MΩ
6	KF1-6 wrt KF1-7 to 34, All pins of KF2, KM1, KM2 except KM1-6	Cathode 6	>100MΩ	>100MΩ	>100MΩ
7	KF1-7 wrt KF1-8 to 34, All pins of KF2, KM1, KM2 except KM1-7	Cathode 7	>100MΩ	>100MΩ	>100MΩ
8	KF1-8 wrt KF1-9 to 34, All pins of KF2, KM1, KM2 except KM1-8	Cathode 8	>100MΩ	>100MΩ	>100MΩ
9	KF1-9 wrt KF1-10 to 34, All pins of KF2, KM1, KM2 except KM1-9	Cathode 9	>100MΩ	>100MΩ	>100MΩ
10	KF1-10 wrt KF1-11 to 34, All pins of KF2, KM1, KM2 except KM1-10	Cathode 10	>100MΩ	>100MΩ	>100MΩ
11	KF1-11 wrt KF1-12 to 34, All pins of KF2, KM1, KM2 except KM1-11	Cathode 11	>100MΩ	>100MΩ	>100MΩ
12	KF1-12 wrt KF1-13 to 34, All pins of KF2, KM1, KM2 except KM1-12	Cathode 12	>100MΩ	>100MΩ	>100MΩ
13	KF1-13 wrt KF1-14 to 34, All pins of KF2, KM1, KM2 except KM1-13	Cathode 13	>100MΩ	>100MΩ	>100MΩ
14	KF1-14 wrt KF1-15 to 34, All pins of KF2, KM1, KM2 except KM1-14	Cathode 14	>100MΩ	>100MΩ	>100MΩ
15	KF1-15 wrt KF1-16 to 34, All pins of KF2, KM1, KM2 except KM1-15	Cathode 15	>100MΩ	>100MΩ	>100MΩ
16	KF1-16 wrt KF1-17 to 34, All pins of KF2, KM1, KM2 except KM1-16	Cathode 16	>100MΩ	>100MΩ	>100MΩ
17	KF1-17 wrt KF1-18 to 34, All pins of KF2, KM1, KM2 except KM1-17	Cathode 17	>100MΩ	>100MΩ	>100MΩ
18	KF1-18 wrt KF1-19 to 34, All pins of KF2, KM1, KM2 except KM1-18	Cathode 18	>100MΩ	>100MΩ	>100MΩ
19	KF1-19 wrt KF1-20 to 34, All pins of KF2, KM1, KM2 except KM1-19	Cathode 19	>100MΩ	>100MΩ	>100MΩ
20	KF1-20 wrt KF1-21 to 34, All pins of KF2, KM1, KM2 except KM1-20	Cathode 20	>100MΩ	>100MΩ	>100MΩ
21	KF1-21 wrt KF1-22 to 34, All pins of KF2, KM1, KM2 except KM1-21	Cathode 21	>100MΩ	>100MΩ	>100MΩ
22	KF1-22 wrt KF1-23 to 34, All pins of KF2, KM1, KM2 except KM1-22	Cathode 22	>100MΩ	>100MΩ	>100MΩ
23	KF1-23 wrt KF1-24 to 34, All pins of KF2, KM1, KM2 except KM1-23	Cathode 23	>100MΩ	>100MΩ	>100MΩ
24	KF1-24 wrt KF1-25 to 34, All pins of KF2, KM1, KM2 except KM1-24	Cathode 24	>100MΩ	>100MΩ	>100MΩ
25	KF1-25 wrt KF1-26 to 34, All pins of KF2, KM1, KM2 except KM1-25	Cathode 25	>100MΩ	>100MΩ	>100MΩ
26	KF1-26 wrt KF1-27 to 34, All pins of KF2, KM1, KM2 except KM1-26	Cathode 26	>100MΩ	>100MΩ	>100MΩ
27	KF1-27 wrt KF1-28 to 34, All pins of KF2, KM1, KM2 except KM1-27	Cathode 27	>100MΩ	>100MΩ	>100MΩ

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
28	KF1-28 wrt KF1-29 to 34, All pins of KF2, KM1, KM2 except KM1-28	Cathode 28	>100MΩ	>100MΩ	>100MΩ
29	KF1-29 wrt KF1-30 to 34, All pins of KF2, KM1, KM2 except KM1-29	Cathode 29	>100MΩ	>100MΩ	>100MΩ
30	KF1-30 wrt KF1-31 to 34, All pins of KF2, KM1, KM2 except KM1-30	Cathode 30	>100MΩ	>100MΩ	>100MΩ
31	KF1-31 wrt KF1-32 to 34, All pins of KF2, KM1, KM2 except KM1-31	Cathode 31	>100MΩ	>100MΩ	>100MΩ
32	KF1-32 wrt KF1-33 to 34, All pins of KF2, KM1, KM2 except KM1-32	Cathode 32	>100MΩ	>100MΩ	>100MΩ
33	KF1-33 wrt KF1-34, All pins of KF2, KM1, KM2 except KM1-33	Cathode 33	>100MΩ	>100MΩ	>100MΩ
34	KF2-1 wrt KF2-2 to 34, All pins of KM1 & KM2 except KM2-1	Cathode 35	>100MΩ	>100MΩ	>100MΩ
35	KF2-2 wrt KF2-3 to 34, All pins of KM1 & KM2 except KM2-2	Cathode 36	>100MΩ	>100MΩ	>100MΩ
36	KF2-3 wrt KF2-4 to 34, All pins of KM1 & KM2 except KM2-3	Cathode 37	>100MΩ	>100MΩ	>100MΩ
37	KF2-4 wrt KF2-5 to 34, All pins of KM1 & KM2 except KM2-4	Cathode 38	>100MΩ	>100MΩ	>100MΩ
38	KF2-5 wrt KF2-6 to 34, All pins of KM1 & KM2 except KM2-5	Cathode 39	>100MΩ	>100MΩ	>100MΩ
39	KF2-6 wrt KF2-7 to 34, All pins of KM1 & KM2 except KM2-6	Cathode 40	>100MΩ	>100MΩ	>100MΩ
40	KF2-7 wrt KF2-8 to 34, All pins of KM1 & KM2 except KM2-7	Cathode 41	>100MΩ	>100MΩ	>100MΩ
41	KF2-8 wrt KF2-9 to 34, All pins of KM1 & KM2 except KM2-8	Cathode 42	>100MΩ	>100MΩ	>100MΩ
42	KF2-9 wrt KF2-10 to 34, All pins of KM1 & KM2 except KM2-9	Cathode 43	>100MΩ	>100MΩ	>100MΩ
43	KF2-10 wrt KF2-11 to 34, All pins of KM1 & KM2 except KM2-10	Cathode 44	>100MΩ	>100MΩ	>100MΩ
44	KF2-11 wrt KF2-12 to 34, All pins of KM1 & KM2 except KM2-11	Cathode 45	>100MΩ	>100MΩ	>100MΩ
45	KF2-12 wrt KF2-13 to 34, All pins of KM1 & KM2 except KM2-12	Cathode 46	>100MΩ	>100MΩ	>100MΩ
46	KF2-13 wrt KF2-14 to 34, All pins of KM1 & KM2 except KM2-13	Cathode 47	>100MΩ	>100MΩ	>100MΩ
47	KF2-14 wrt KF2-15 to 34, All pins of KM1 & KM2 except KM2-14	Cathode 48	>100MΩ	>100MΩ	>100MΩ
48	KF2-15 wrt KF2-16 to 34, All pins of KM1 & KM2 except KM2-15	Cathode 49	>100MΩ	>100MΩ	>100MΩ
49	KF2-16 wrt KF2-17 to 34, All pins of KM1 & KM2 except KM2-16	Cathode 50	>100MΩ	>100MΩ	>100MΩ
50	KF2-17 wrt KF2-18 to 34, All pins of KM1 & KM2 except KM2-17	Cathode 51	>100MΩ	>100MΩ	>100MΩ
51	KF2-18 wrt KF2-19 to 34, All pins of KM1 & KM2 except KM2-18	Cathode 52	>100MΩ	>100MΩ	>100MΩ
52	KF2-19 wrt KF2-20 to 34, All pins of KM1 & KM2 except KM2-19	Cathode 53	>100MΩ	>100MΩ	>100MΩ
53	KF2-20 wrt KF2-21 to 34, All pins of KM1 & KM2 except KM2-20	Cathode 54	>100MΩ	>100MΩ	>100MΩ
54	KF2-21 wrt KF2-22 to 34, All pins of KM1 & KM2 except KM2-21	Cathode 55	>100MΩ	>100MΩ	>100MΩ
55	KF2-22 wrt KF2-23 to 34, All pins of KM1 & KM2 except KM2-22	Cathode 56	>100MΩ	>100MΩ	>100MΩ
56	KF2-23 wrt KF2-24 to 34, All pins of KM1 & KM2 except KM2-23	Cathode 57	>100MΩ	>100MΩ	>100MΩ
57	KF2-24 wrt KF2-25 to 34, All pins of KM1 & KM2 except KM2-24	Cathode 58	>100MΩ	>100MΩ	>100MΩ
58	KF2-25 wrt KF2-26 to 34, All pins of KM1 & KM2 except KM2-25	Cathode 59	>100MΩ	>100MΩ	>100MΩ
59	KF2-26 wrt KF2-27 to 34, All pins of KM1 & KM2 except KM2-26	Cathode 60	>100MΩ	>100MΩ	>100MΩ
60	KF2-27 wrt KF2-28 to 34, All pins of KM1 & KM2 except KM2-27	Cathode 61	>100MΩ	>100MΩ	>100MΩ
61	KF2-28 wrt KF2-29 to 34, All pins of KM1 & KM2 except KM2-28	Cathode 62	>100MΩ	>100MΩ	>100MΩ
62	KF2-29 wrt KF2-30 to 34, All pins of KM1 & KM2 except KM2-29	Cathode 63	>100MΩ	>100MΩ	>100MΩ
63	KF2-30 wrt KF2-31 to 34, All pins of KM1 & KM2 except KM2-30	Cathode 64	>100MΩ	>100MΩ	>100MΩ
64	KF2-31 wrt KF2-32 to 34, All pins of KM1 & KM2 except KM2-31	Cathode 65	>100MΩ	>100MΩ	>100MΩ
65	KF2-32 wrt KF2-33 to 34, All pins of KM1 & KM2 except KM2-32	Cathode 66	>100MΩ	>100MΩ	>100MΩ
66	KF2-33 wrt KF2-34, All pins of KM1 & KM2 except KM2-33	Cathode 67	>100MΩ	>100MΩ	>100MΩ

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
67	KM1-1 wrt KM1-2 to 34 & All pins of KM2	Anode 1	>100MΩ	>100MΩ	>100MΩ
68	KM1-2 wrt KM1-3 to 34 & All pins of KM2	Anode 2	>100MΩ	>100MΩ	>100MΩ
69	KM1-3 wrt KM1-4 to 34 & All pins of KM2	Anode 3	>100MΩ	>100MΩ	>100MΩ
70	KM1-4 wrt KM1-5 to 34 & All pins of KM2	Anode 4	>100MΩ	>100MΩ	>100MΩ
71	KM1-5 wrt KM1-6 to 34 & All pins of KM2	Anode 5	>100MΩ	>100MΩ	>100MΩ
72	KM1-6 wrt KM1-7 to 34 & All pins of KM2	Anode 6	>100MΩ	>100MΩ	>100MΩ
73	KM1-7 wrt KM1-8 to 34 & All pins of KM2	Anode 7	>100MΩ	>100MΩ	>100MΩ
74	KM1-8 wrt KM1-9 to 34 & All pins of KM2	Anode 8	>100MΩ	>100MΩ	>100MΩ
75	KM1-9 wrt KM1-10 to 34 & All pins of KM2	Anode 9	>100MΩ	>100MΩ	>100MΩ
76	KM1-10 wrt KM1-11 to 34 & All pins of KM2	Anode 10	>100MΩ	>100MΩ	>100MΩ
77	KM1-11 wrt KM1-12 to 34 & All pins of KM2	Anode 11	>100MΩ	>100MΩ	>100MΩ
78	KM1-12 wrt KM1-13 to 34 & All pins of KM2	Anode 12	>100MΩ	>100MΩ	>100MΩ
79	KM1-13 wrt KM1-14 to 34 & All pins of KM2	Anode 13	>100MΩ	>100MΩ	>100MΩ
80	KM1-14 wrt KM1-15 to 34 & All pins of KM2	Anode 14	>100MΩ	>100MΩ	>100MΩ
81	KM1-15 wrt KM1-16 to 34 & All pins of KM2	Anode 15	>100MΩ	>100MΩ	>100MΩ
82	KM1-16 wrt KM1-17 to 34 & All pins of KM2	Anode 16	>100MΩ	>100MΩ	>100MΩ
83	KM1-17 wrt KM1-18 to 34 & All pins of KM2	Anode 17	>100MΩ	>100MΩ	>100MΩ
84	KM1-18 wrt KM1-19 to 34 & All pins of KM2	Anode 18	>100MΩ	>100MΩ	>100MΩ
85	KM1-19 wrt KM1-20 to 34 & All pins of KM2	Anode 19	>100MΩ	>100MΩ	>100MΩ
86	KM1-20 wrt KM1-21 to 34 & All pins of KM2	Anode 20	>100MΩ	>100MΩ	>100MΩ
87	KM1-21 wrt KM1-22 to 34 & All pins of KM2	Anode 21	>100MΩ	>100MΩ	>100MΩ
88	KM1-22 wrt KM1-23 to 34 & All pins of KM2	Anode 22	>100MΩ	>100MΩ	>100MΩ
89	KM1-23 wrt KM1-24 to 34 & All pins of KM2	Anode 23	>100MΩ	>100MΩ	>100MΩ
90	KM1-24 wrt KM1-25 to 34 & All pins of KM2	Anode 24	>100MΩ	>100MΩ	>100MΩ
91	KM1-25 wrt KM1-26 to 34 & All pins of KM2	Anode 25	>100MΩ	>100MΩ	>100MΩ
92	KM1-26 wrt KM1-27 to 34 & All pins of KM2	Anode 26	>100MΩ	>100MΩ	>100MΩ
93	KM1-27 wrt KM1-28 to 34 & All pins of KM2	Anode 27	>100MΩ	>100MΩ	>100MΩ
94	KM1-28 wrt KM1-29 to 34 & All pins of KM2	Anode 28	>100MΩ	>100MΩ	>100MΩ
95	KM1-29 wrt KM1-30 to 34 & All pins of KM2	Anode 29	>100MΩ	>100MΩ	>100MΩ
96	KM1-30 wrt KM1-31 to 34 & All pins of KM2	Anode 30	>100MΩ	>100MΩ	>100MΩ
97	KM1-31 wrt KM1-32 to 34 & All pins of KM2	Anode 31	>100MΩ	>100MΩ	>100MΩ
98	KM1-32 wrt KM1-33 to 34 & All pins of KM2	Anode 32	>100MΩ	>100MΩ	>100MΩ
99	KM1-33 wrt KM1-34 to 34 & All pins of KM2	Anode 33	>100MΩ	>100MΩ	>100MΩ
100	KM2-1 wrt KM2-2 to 34	Anode 35	>100MΩ	>100MΩ	>100MΩ
101	KM2-2 wrt KM2-3 to 34	Anode 36	>100MΩ	>100MΩ	>100MΩ
102	KM2-3 wrt KM2-4 to 34	Anode 37	>100MΩ	>100MΩ	>100MΩ
103	KM2-4 wrt KM2-5 to 34	Anode 38	>100MΩ	>100MΩ	>100MΩ
104	KM2-5 wrt KM2-6 to 34	Anode 39	>100MΩ	>100MΩ	>100MΩ
105	KM2-6 wrt KM2-7 to 34	Anode 40	>100MΩ	>100MΩ	>100MΩ
106	KM2-7 wrt KM2-8 to 34	Anode 41	>100MΩ	>100MΩ	>100MΩ
107	KM2-8 wrt KM2-9 to 34	Anode 42	>100MΩ	>100MΩ	>100MΩ
108	KM2-9 wrt KM2-10 to 34	Anode 43	>100MΩ	>100MΩ	>100MΩ

Sl no.	Test Points	Description	Expected	Observed	
				ISRC	FSRC
109	KM2-10 wrt KM2-11 to 34	Anode 44	>100MΩ	>100MΩ	>100MΩ
110	KM2-11 wrt KM2-12 to 34	Anode 45	>100MΩ	>100MΩ	>100MΩ
111	KM2-12 wrt KM2-13 to 34	Anode 46	>100MΩ	>100MΩ	>100MΩ
112	KM2-13 wrt KM2-14 to 34	Anode 47	>100MΩ	>100MΩ	>100MΩ
113	KM2-14 wrt KM2-15 to 34	Anode 48	>100MΩ	>100MΩ	>100MΩ
114	KM2-15 wrt KM2-16 to 34	Anode 49	>100MΩ	>100MΩ	>100MΩ
115	KM2-16 wrt KM2-17 to 34	Anode 50	>100MΩ	>100MΩ	>100MΩ
116	KM2-17 wrt KM2-18 to 34	Anode 51	>100MΩ	>100MΩ	>100MΩ
117	KM2-18 wrt KM2-19 to 34	Anode 52	>100MΩ	>100MΩ	>100MΩ
118	KM2-19 wrt KM2-20 to 34	Anode 53	>100MΩ	>100MΩ	>100MΩ
119	KM2-20 wrt KM2-21 to 34	Anode 54	>100MΩ	>100MΩ	>100MΩ
120	KM2-21 wrt KM2-22 to 34	Anode 55	>100MΩ	>100MΩ	>100MΩ
121	KM2-22 wrt KM2-23 to 34	Anode 56	>100MΩ	>100MΩ	>100MΩ
122	KM2-23 wrt KM2-24 to 34	Anode 57	>100MΩ	>100MΩ	>100MΩ
123	KM2-24 wrt KM2-25 to 34	Anode 58	>100MΩ	>100MΩ	>100MΩ
124	KM2-25 wrt KM2-26 to 34	Anode 59	>100MΩ	>100MΩ	>100MΩ
125	KM2-26 wrt KM2-27 to 34	Anode 60	>100MΩ	>100MΩ	>100MΩ
126	KM2-27 wrt KM2-28 to 34	Anode 61	>100MΩ	>100MΩ	>100MΩ
127	KM2-28 wrt KM2-29 to 34	Anode 62	>100MΩ	>100MΩ	>100MΩ
128	KM2-29 wrt KM2-30 to 34	Anode 63	>100MΩ	>100MΩ	>100MΩ
129	KM2-30 wrt KM2-31 to 34	Anode 64	>100MΩ	>100MΩ	>100MΩ
130	KM2-31 wrt KM2-32 to 34	Anode 65	>100MΩ	>100MΩ	>100MΩ
131	KM2-32 wrt KM2-33 to 34	Anode 66	>100MΩ	>100MΩ	>100MΩ
132	KM2-33 wrt KM2-34	Anode 67	>100MΩ	>100MΩ	>100MΩ
133	All pins wrt Chassis		>100MΩ	>100MΩ	>100MΩ

## 12.2 Diode Checks

SL No.	Test Points	Description	Forward Voltage(V)			Reverse Resistance(Ω)		
			Expected	ISRC	FSRC	Expected	ISRC	FSRC
1	KM1-1 wrt KF1-1	Diode Channel 1	0.3V - 0.6V	0.393	0.388	>5MΩ	20.865M	16.791M
2	KM1-2 wrt KF1-2	Diode Channel 2	0.3V - 0.6V	0.39	0.385	>5MΩ	18.820M	15.040M
3	KM1-3 wrt KF1-3	Diode Channel 3	0.3V - 0.6V	0.395	0.389	>5MΩ	21.693M	17.466M
4	KM1-4 wrt KF1-4	Diode Channel 4	0.3V - 0.6V	0.396	0.391	>5MΩ	22.649M	18.359M
5	KM1-5 wrt KF1-5	Diode Channel 5	0.3V - 0.6V	0.393	0.387	>5MΩ	20.445M	16.441M
6	KM1-6 wrt KF1-6	Diode Channel 6	0.3V - 0.6V	0.395	0.39	>5MΩ	22.184M	17.897M
7	KM1-7 wrt KF1-7	Diode Channel 7	0.3V - 0.6V	0.39	0.385	>5MΩ	18.975M	15.204M
8	KM1-8 wrt KF1-8	Diode Channel 8	0.3V - 0.6V	0.393	0.388	>5MΩ	20.859M	16.870M
9	KM1-9 wrt KF1-9	Diode Channel 9	0.3V - 0.6V	0.39	0.385	>5MΩ	18.733M	15.176M
10	KM1-10 wrt KF1-10	Diode Channel 10	0.3V - 0.6V	0.396	0.39	>5MΩ	22.475M	18.243M
11	KM1-11 wrt KF1-11	Diode Channel 11	0.3V - 0.6V	0.391	0.386	>5MΩ	19.635M	15.777M