

# RF Transfer Switch Matrix

# RC-3MTS-50

## Typical Performance Data per Switch

FREQUENCY (GHz)	INSERTION LOSS (dB)				ISOLATION (dB)				Return Loss (dB)			
	State 1		State 2		State 1		State 2		J1	J2	J3	J4
	J1-J2	J4-J3	J1-J3	J4-J2	J1-J3	J4-J2	J1-J2	J4-J3				
1	-0.03	-0.04	-0.05	-0.02	-109	-102	-109	-110	-34	-33	-34	-34
2	-0.05	-0.06	-0.06	-0.03	-108	-104	-111	-106	-30	-30	-30	-30
3	-0.06	-0.08	-0.08	-0.04	-109	-116	-116	-116	-28	-27	-27	-27
4	-0.08	-0.09	-0.09	-0.06	-110	-116	-110	-115	-25	-25	-26	-25
5	-0.09	-0.11	-0.10	-0.07	-111	-111	-106	-114	-24	-24	-25	-24
6	-0.09	-0.11	-0.11	-0.07	-116	-105	-103	-104	-27	-26	-27	-26
7	-0.09	-0.11	-0.12	-0.08	-109	-105	-100	-101	-37	-39	-36	-39
8	-0.11	-0.12	-0.17	-0.10	-100	-100	-96	-96	-31	-29	-30	-29
9	-0.15	-0.16	-0.22	-0.15	-98	-97	-94	-95	-23	-22	-23	-22
10	-0.18	-0.18	-0.27	-0.18	-99	-101	-99	-98	-20	-20	-20	-21
11	-0.19	-0.18	-0.27	-0.18	-101	-104	-104	-98	-19	-21	-19	-21
12	-0.18	-0.18	-0.25	-0.16	-109	-107	-112	-103	-20	-23	-20	-23
13	-0.16	-0.17	-0.21	-0.14	-105	-99	-95	-100	-23	-26	-23	-26
14	-0.15	-0.17	-0.20	-0.13	-96	-95	-110	-101	-25	-29	-25	-29
15	-0.15	-0.18	-0.19	-0.13	-111	-107	-105	-106	-28	-31	-28	-31
16	-0.15	-0.18	-0.19	-0.13	-119	-108	-104	-109	-30	-30	-30	-30
17	-0.15	-0.18	-0.19	-0.13	-109	-111	-103	-101	-32	-32	-30	-33
18	-0.16	-0.20	-0.21	-0.14	-105	-108	-99	-101	-36	-38	-31	-36
19	-0.16	-0.20	-0.20	-0.13	-106	-105	-99	-97	-34	-36	-34	-37
20	-0.18	-0.21	-0.22	-0.14	-99	-98	-96	-95	-33	-31	-37	-33
21	-0.17	-0.22	-0.22	-0.15	-102	-104	-96	-94	-41	-30	-37	-30
22	-0.18	-0.22	-0.23	-0.15	-96	-103	-92	-95	-33	-39	-38	-43
23	-0.18	-0.23	-0.24	-0.15	-97	-94	-94	-95	-28	-27	-28	-27
24	-0.21	-0.28	-0.27	-0.20	-93	-97	-97	-98	-21	-19	-21	-19
25	-0.26	-0.35	-0.32	-0.27	-98	-99	-96	-97	-18	-16	-18	-16
26	-0.27	-0.35	-0.33	-0.29	-102	-102	-99	-97	-17	-16	-17	-16
27	-0.23	-0.31	-0.29	-0.25	-103	-101	-95	-108	-19	-18	-19	-18
28	-0.20	-0.27	-0.27	-0.20	-98	-106	-98	-99	-23	-22	-23	-22
29	-0.18	-0.24	-0.25	-0.15	-110	-116	-99	-99	-29	-38	-30	-32
30	-0.18	-0.25	-0.25	-0.15	-101	-110	-109	-114	-35	-29	-47	-30
31	-0.19	-0.27	-0.27	-0.16	-95	-104	-128	-116	-33	-24	-32	-24
32	-0.20	-0.27	-0.28	-0.16	-100	-103	-105	-105	-27	-24	-27	-24
33	-0.22	-0.28	-0.30	-0.17	-103	-105	-99	-100	-24	-26	-24	-26
34	-0.24	-0.27	-0.31	-0.17	-107	-105	-105	-99	-22	-27	-22	-29
35	-0.23	-0.29	-0.33	-0.19	-102	-111	-112	-104	-21	-23	-21	-23
36	-0.24	-0.33	-0.34	-0.23	-96	-93	-98	-97	-20	-19	-20	-19
37	-0.25	-0.38	-0.39	-0.28	-91	-91	-92	-97	-20	-17	-19	-17
38	-0.27	-0.35	-0.38	-0.29	-83	-81	-83	-94	-20	-19	-20	-18
39	-0.24	-0.32	-0.38	-0.23	-94	-100	-88	-103	-24	-22	-25	-24
40	-0.23	-0.30	-0.36	-0.18	-83	-84	-89	-85	-34	-42	-35	-36
41	-0.26	-0.33	-0.36	-0.20	-84	-87	-94	-87	-24	-26	-25	-25
42	-0.26	-0.32	-0.35	-0.19	-85	-88	-87	-83	-24	-22	-26	-27
43	-0.25	-0.30	-0.34	-0.21	-99	-84	-83	-87	-32	-30	-38	-33
44	-0.31	-0.34	-0.40	-0.29	-89	-93	-83	-84	-20	-21	-20	-21
45	-0.39	-0.41	-0.52	-0.35	-78	-80	-88	-83	-15	-13	-15	-14
46	-0.51	-0.53	-0.60	-0.46	-100	-84	-90	-91	-12	-11	-12	-12
47	-0.63	-0.56	-0.64	-0.53	-90	-82	-85	-90	-11	-12	-11	-12
48	-0.62	-0.36	-0.45	-0.41	-91	-88	-83	-90	-12	-15	-12	-13
49	-0.47	-0.21	-0.25	-0.29	-83	-88	-84	-85	-16	-25	-16	-26
50	-0.39	-0.22	-0.20	-0.30	-80	-90	-90	-82	-31	-23	-33	-27



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