

RF Transfer Switch Matrix

RC-2MTS-12N

Typical Performance Data per Switch

FREQUENCY (GHz)	INSERTION LOSS (dB)				ISOLATION (dB)				Return Loss (dB)				Return Loss (dB)			
	State 2		State 1		State 2		State 1		State 1				State 2			
	J1-J3	J4-J2	J1-J2	J4-J3	J1-J3	J4-J2	J1-J2	J4-J3	J1	J2	J3	J4	J1	J2	J3	J4
0.01	-0.004	-0.01	-0.005	-0.005	-96	-92	-99	-94	-59	-59	-57	-58	-59	-58	-59	-58
0.1	-0.02	-0.02	-0.02	-0.02	-107	-101	-101	-107	-48	-49	-50	-51	-50	-49	-50	-49
0.2	-0.03	-0.03	-0.03	-0.03	-95	-92	-97	-91	-45	-44	-45	-47	-47	-45	-45	-45
0.4	-0.05	-0.06	-0.06	-0.05	-104	-91	-97	-108	-40	-43	-42	-43	-42	-42	-43	-41
0.6	-0.06	-0.07	-0.07	-0.06	-98	-102	-93	-93	-40	-40	-42	-41	-42	-41	-41	-40
0.8	-0.07	-0.07	-0.07	-0.07	-93	-96	-102	-90	-37	-40	-41	-40	-39	-39	-42	-38
1.0	-0.07	-0.08	-0.08	-0.07	-97	-94	-109	-92	-37	-38	-39	-39	-38	-37	-39	-37
1.2	-0.08	-0.08	-0.08	-0.07	-100	-92	-91	-91	-36	-37	-37	-38	-36	-35	-38	-35
1.4	-0.08	-0.09	-0.08	-0.08	-95	-93	-94	-101	-36	-36	-36	-37	-35	-34	-36	-35
1.6	-0.09	-0.09	-0.09	-0.08	-99	-87	-100	-99	-35	-35	-35	-36	-35	-33	-35	-33
1.8	-0.09	-0.09	-0.09	-0.09	-99	-98	-95	-96	-35	-35	-34	-35	-35	-32	-34	-33
2.0	-0.09	-0.10	-0.10	-0.09	-99	-91	-94	-89	-36	-37	-34	-36	-37	-33	-36	-33
2.2	-0.09	-0.10	-0.10	-0.09	-106	-94	-96	-94	-38	-38	-37	-38	-39	-36	-37	-34
2.4	-0.09	-0.10	-0.10	-0.09	-102	-91	-99	-105	-42	-44	-44	-46	-49	-41	-43	-36
2.6	-0.10	-0.10	-0.10	-0.09	-101	-97	-98	-104	-65	-41	-48	-47	-45	-51	-50	-41
2.8	-0.10	-0.10	-0.10	-0.09	-103	-99	-96	-93	-40	-37	-40	-38	-37	-41	-43	-56
3.0	-0.10	-0.10	-0.10	-0.10	-108	-91	-114	-93	-36	-32	-34	-35	-34	-35	-35	-44
3.2	-0.10	-0.10	-0.11	-0.10	-96	-103	-100	-99	-32	-29	-30	-31	-30	-31	-30	-36
3.4	-0.10	-0.11	-0.11	-0.10	-96	-90	-97	-96	-30	-28	-28	-29	-29	-29	-29	-32
3.6	-0.11	-0.11	-0.12	-0.10	-107	-90	-98	-118	-28	-27	-27	-28	-28	-28	-28	-30
3.8	-0.11	-0.11	-0.12	-0.11	-91	-102	-109	-91	-27	-27	-26	-27	-27	-27	-27	-28
4.0	-0.11	-0.12	-0.12	-0.11	-90	-102	-93	-98	-27	-29	-27	-27	-27	-28	-28	-28
4.2	-0.12	-0.11	-0.13	-0.11	-97	-92	-96	-88	-30	-31	-28	-28	-29	-30	-29	-30
4.4	-0.12	-0.11	-0.14	-0.10	-100	-96	-110	-102	-32	-33	-31	-30	-31	-34	-31	-33
4.6	-0.12	-0.11	-0.15	-0.10	-94	-95	-94	-91	-39	-43	-35	-34	-36	-40	-35	-39
4.8	-0.12	-0.11	-0.14	-0.10	-92	-114	-90	-98	-40	-38	-48	-38	-44	-39	-42	-45
5.0	-0.12	-0.11	-0.14	-0.10	-94	-102	-104	-110	-33	-31	-43	-37	-46	-33	-38	-33
5.2	-0.12	-0.11	-0.14	-0.10	-89	-105	-107	-96	-29	-27	-32	-32	-34	-28	-31	-29
5.4	-0.13	-0.12	-0.14	-0.11	-102	-91	-95	-104	-27	-25	-28	-29	-31	-25	-28	-27
5.6	-0.12	-0.12	-0.13	-0.11	-95	-97	-112	-89	-26	-24	-26	-27	-28	-23	-27	-25
5.8	-0.12	-0.12	-0.13	-0.11	-113	-97	-93	-90	-25	-23	-24	-25	-27	-22	-26	-24
6.0	-0.12	-0.12	-0.13	-0.11	-94	-91	-96	-91	-24	-22	-24	-25	-25	-22	-24	-25
6.2	-0.11	-0.12	-0.12	-0.11	-90	-92	-94	-95	-27	-23	-24	-25	-26	-23	-26	-27
6.4	-0.11	-0.12	-0.12	-0.11	-91	-89	-93	-88	-29	-24	-25	-26	-27	-23	-27	-29
6.6	-0.12	-0.12	-0.12	-0.11	-90	-96	-103	-93	-31	-24	-25	-26	-29	-23	-27	-30
6.8	-0.11	-0.11	-0.12	-0.10	-92	-98	-103	-103	-32	-26	-26	-26	-29	-25	-31	-31
7.0	-0.11	-0.11	-0.12	-0.11	-102	-87	-91	-105	-35	-27	-28	-27	-33	-27	-34	-31
7.2	-0.12	-0.12	-0.13	-0.11	-92	-95	-89	-99	-32	-27	-28	-27	-31	-28	-33	-30
7.4	-0.13	-0.12	-0.14	-0.11	-90	-92	-90	-99	-31	-30	-30	-28	-33	-31	-34	-30
7.6	-0.12	-0.11	-0.13	-0.11	-97	-92	-95	-90	-28	-32	-32	-28	-31	-35	-37	-30
7.8	-0.14	-0.13	-0.14	-0.14	-97	-90	-99	-92	-28	-31	-29	-28	-30	-34	-34	-30
8.0	-0.15	-0.15	-0.16	-0.15	-101	-91	-98	-90	-25	-30	-25	-24	-27	-31	-29	-26
8.2	-0.17	-0.16	-0.16	-0.17	-104	-97	-91	-105	-24	-28	-24	-22	-25	-30	-26	-25
8.4	-0.18	-0.16	-0.17	-0.17	-99	-98	-94	-92	-24	-28	-23	-22	-25	-29	-26	-24
8.6	-0.17	-0.16	-0.17	-0.17	-93	-93	-116	-96	-23	-28	-24	-22	-25	-30	-27	-24
8.8	-0.18	-0.15	-0.16	-0.16	-102	-94	-108	-90	-24	-29	-24	-22	-24	-30	-27	-24
9.0	-0.18	-0.15	-0.17	-0.17	-95	-94	-90	-93	-23	-29	-24	-21	-24	-30	-27	-23
9.2	-0.19	-0.16	-0.17	-0.17	-100	-100	-101	-94	-23	-28	-23	-21	-24	-29	-25	-23
9.4	-0.20	-0.16	-0.18	-0.18	-92	-93	-99	-91	-23	-26	-23	-21	-24	-28	-24	-23
9.6	-0.19	-0.16	-0.18	-0.18	-97	-93	-97	-97	-23	-26	-23	-21	-24	-28	-25	-23
9.8	-0.20	-0.15	-0.18	-0.17	-106	-96	-92	-92	-22	-26	-24	-21	-23	-29	-25	-22
10.0	-0.20	-0.15	-0.18	-0.17	-103	-97	-93	-96	-22	-26	-24	-20	-23	-29	-25	-22
10.2	-0.21	-0.15	-0.18	-0.17	-96	-98	-108	-93	-22	-26	-23	-20	-23	-28	-25	-21
10.4	-0.21	-0.15	-0.19	-0.18	-93	-90	-89	-87	-22	-25	-23	-20	-23	-27	-24	-21
10.6	-0.22	-0.16	-0.19	-0.19	-91	-104	-106	-95	-22	-24	-23	-19	-22	-27	-24	-22
10.8	-0.24	-0.16	-0.21	-0.18	-97	-98	-98	-91	-21	-24	-23	-19	-21	-27	-24	-21
11.0	-0.24	-0.16	-0.21	-0.19	-100	-97	-101	-90	-21	-24	-23	-19	-21	-26	-24	-21
11.2	-0.24	-0.16	-0.21	-0.19	-104	-89	-90	-98	-21	-23	-23	-19	-21	-26	-24	-21
11.4	-0.24	-0.16	-0.21	-0.19	-92	-87	-97	-94	-21	-23	-22	-19	-21	-25	-23	-21
11.6	-0.24	-0.16	-0.21	-0.19	-92	-92	-99	-97	-21	-23	-22	-18	-20	-25	-23	-20
11.8	-0.26	-0.16	-0.22	-0.19	-92	-93	-104	-103	-20	-23	-22	-18	-20	-24	-23	-20
12.0	-0.26	-0.17	-0.23	-0.21	-93	-95	-87	-92	-19	-22	-21	-18	-19	-23	-23	-20
12.2	-0.26	-0.17	-0.23	-0.21	-91	-94	-98	-107	-19	-22	-21	-18	-19	-23	-23	-20
12.4	-0.25	-0.17	-0.22	-0.21	-93	-100	-96	-100	-19	-22	-21	-18	-18	-23	-23	-20



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10/14/2022
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