

Xtra Long Life USB RF SPDT Switch A

USB-4SPDT-A18

Typical Performance Data

TEST CONDITIONS: @Temperature = 0degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.02	0.03	87.42	93.61	1.02	1.01	1.01	1.01	1.01	1.01
50	0.01	0.01	89.35	86.47	1.00	1.01	1.00	1.00	1.00	1.01
100	0.01	0.01	85.17	86.09	1.01	1.01	1.00	1.01	1.00	1.02
200	0.02	0.02	86.50	89.73	1.01	1.00	1.01	1.01	1.01	1.02
300	0.02	0.03	92.57	94.57	1.01	1.01	1.01	1.01	1.00	1.03
400	0.03	0.03	92.82	100.60	1.01	1.02	1.02	1.02	1.01	1.03
500	0.03	0.03	97.31	94.78	1.02	1.02	1.02	1.02	1.01	1.02
600	0.03	0.04	102.77	91.81	1.02	1.02	1.02	1.02	1.02	1.02
700	0.03	0.04	93.83	93.02	1.01	1.01	1.01	1.00	1.01	1.01
800	0.04	0.03	101.27	100.16	1.01	1.01	1.01	1.00	1.00	1.01
900	0.03	0.03	100.54	94.00	1.01	1.01	1.01	1.01	1.01	1.02
1000	0.04	0.05	100.09	95.25	1.01	1.01	1.01	1.01	1.01	1.02
1200	0.05	0.04	95.78	94.45	1.01	1.01	1.02	1.01	1.01	1.02
1400	0.05	0.04	100.10	96.82	1.01	1.01	1.03	1.01	1.02	1.02
1600	0.06	0.06	94.72	99.78	1.01	1.01	1.03	1.01	1.01	1.02
1800	0.05	0.05	93.92	96.68	1.02	1.02	1.04	1.02	1.02	1.03
2000	0.05	0.05	93.30	101.46	1.02	1.02	1.05	1.01	1.02	1.03
2500	0.06	0.06	89.26	89.84	1.05	1.04	1.06	1.03	1.05	1.04
3000	0.08	0.08	100.25	93.99	1.08	1.06	1.07	1.05	1.07	1.05
3500	0.07	0.07	109.33	98.87	1.10	1.08	1.09	1.08	1.10	1.07
4000	0.09	0.08	97.59	90.24	1.13	1.11	1.11	1.12	1.14	1.10
5000	0.11	0.11	100.29	97.87	1.20	1.18	1.15	1.18	1.20	1.14
6000	0.13	0.14	104.62	113.86	1.22	1.22	1.15	1.22	1.22	1.16
7000	0.13	0.14	94.90	102.65	1.17	1.18	1.14	1.17	1.17	1.15
8000	0.12	0.13	89.49	92.24	1.11	1.12	1.10	1.13	1.12	1.12
8500	0.13	0.14	88.24	88.07	1.11	1.12	1.09	1.12	1.11	1.12
9000	0.15	0.15	89.91	97.92	1.10	1.12	1.09	1.11	1.10	1.11
9500	0.16	0.16	88.70	91.99	1.10	1.11	1.09	1.12	1.10	1.12
10000	0.15	0.16	96.41	87.96	1.09	1.11	1.10	1.11	1.10	1.11
10500	0.16	0.16	95.44	95.09	1.11	1.12	1.11	1.13	1.11	1.12
11000	0.17	0.17	103.80	95.51	1.13	1.13	1.12	1.13	1.14	1.12
11500	0.15	0.14	89.59	97.69	1.17	1.16	1.14	1.17	1.17	1.14
12000	0.21	0.19	84.15	93.73	1.21	1.18	1.16	1.17	1.19	1.14
13000	0.21	0.20	82.15	86.60	1.17	1.18	1.15	1.21	1.20	1.15
14000	0.20	0.20	76.66	82.82	1.18	1.23	1.23	1.21	1.18	1.23
15000	0.23	0.24	78.19	84.72	1.18	1.25	1.27	1.26	1.19	1.32
16000	0.22	0.24	83.49	90.70	1.12	1.18	1.22	1.23	1.14	1.30
17000	0.12	0.10	77.22	83.45	1.01	1.04	1.14	1.01	1.02	1.15
18000	0.17	0.14	67.51	75.36	1.09	1.05	1.19	1.06	1.08	1.19
19000	0.23	0.23	64.19	72.27	1.26	1.30	1.35	1.27	1.23	1.39
20000	0.35	0.44	65.94	72.41	1.41	1.57	1.42	1.60	1.45	1.44



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Xtra Long Life USB RF SPDT Switch B

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Typical Performance Data

TEST CONDITIONS: @Temperature = 0degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.04	0.02	87.27	93.17	1.01	1.02	1.01	1.01	1.02	1.01
50	0.00	0.01	88.74	86.57	1.01	1.01	1.02	1.00	1.00	1.01
100	0.01	0.01	86.27	89.33	1.01	1.01	1.02	1.01	1.01	1.01
200	0.01	0.01	88.17	101.64	1.01	1.00	1.03	1.01	1.01	1.00
300	0.01	0.02	86.43	85.45	1.01	1.01	1.03	1.01	1.00	1.01
400	0.03	0.03	102.22	96.91	1.01	1.02	1.03	1.02	1.02	1.01
500	0.02	0.03	99.98	93.16	1.02	1.02	1.03	1.02	1.02	1.01
600	0.03	0.03	94.10	99.05	1.02	1.02	1.02	1.02	1.02	1.01
700	0.03	0.03	94.80	105.91	1.01	1.01	1.02	1.01	1.01	1.01
800	0.02	0.03	96.86	101.28	1.01	1.01	1.02	1.01	1.01	1.01
900	0.03	0.03	111.82	103.89	1.00	1.00	1.02	1.01	1.00	1.01
1000	0.04	0.04	96.48	99.98	1.01	1.01	1.02	1.02	1.01	1.02
1200	0.04	0.04	96.81	101.10	1.00	1.01	1.03	1.02	1.02	1.02
1400	0.05	0.04	99.64	107.09	1.00	1.01	1.02	1.03	1.02	1.03
1600	0.06	0.05	94.57	100.28	1.00	1.01	1.02	1.03	1.02	1.04
1800	0.04	0.04	97.16	92.97	1.01	1.01	1.03	1.03	1.03	1.05
2000	0.05	0.05	90.56	93.48	1.01	1.01	1.03	1.04	1.03	1.06
2500	0.06	0.05	94.49	88.47	1.03	1.03	1.04	1.04	1.04	1.08
3000	0.07	0.07	92.31	94.68	1.06	1.06	1.05	1.06	1.05	1.10
3500	0.07	0.07	91.83	95.83	1.07	1.08	1.07	1.09	1.08	1.12
4000	0.08	0.08	93.32	93.16	1.10	1.12	1.11	1.13	1.11	1.14
5000	0.12	0.10	96.02	99.04	1.15	1.18	1.17	1.19	1.16	1.16
6000	0.14	0.14	97.75	103.32	1.19	1.22	1.19	1.23	1.20	1.13
7000	0.14	0.13	94.59	93.61	1.16	1.18	1.18	1.19	1.17	1.09
8000	0.14	0.13	89.31	88.34	1.12	1.12	1.14	1.13	1.13	1.06
8500	0.15	0.14	87.43	88.48	1.13	1.13	1.13	1.12	1.13	1.07
9000	0.17	0.15	83.46	90.73	1.13	1.12	1.12	1.10	1.12	1.05
9500	0.18	0.17	88.28	88.70	1.14	1.12	1.13	1.11	1.13	1.08
10000	0.18	0.16	93.42	95.27	1.12	1.11	1.11	1.09	1.11	1.09
10500	0.18	0.17	93.81	96.71	1.12	1.11	1.11	1.09	1.12	1.12
11000	0.19	0.17	111.49	95.51	1.13	1.11	1.09	1.10	1.12	1.15
11500	0.16	0.15	90.98	96.75	1.13	1.11	1.08	1.12	1.14	1.18
12000	0.21	0.20	88.12	88.02	1.15	1.12	1.07	1.13	1.15	1.23
13000	0.22	0.21	83.96	82.63	1.14	1.11	1.07	1.18	1.20	1.26
14000	0.24	0.23	83.03	79.42	1.18	1.16	1.15	1.19	1.20	1.31
15000	0.29	0.27	79.27	78.88	1.21	1.20	1.24	1.21	1.22	1.31
16000	0.30	0.29	86.49	89.25	1.13	1.13	1.25	1.11	1.16	1.25
17000	0.20	0.22	84.74	82.82	1.05	1.07	1.16	1.15	1.07	1.19
18000	0.23	0.26	75.07	76.34	1.05	1.11	1.18	1.12	1.07	1.30
19000	0.29	0.30	71.67	74.94	1.20	1.27	1.42	1.23	1.19	1.44
20000	0.47	0.51	73.82	78.57	1.40	1.51	1.60	1.67	1.51	1.37



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Xtra Long Life USB RF SPDT Switch C

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Typical Performance Data

TEST CONDITIONS: @Temperature = 0degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.01	0.01	88.17	88.94	1.01	1.02	1.00	1.01	1.01	1.02
50	0.01	0.01	85.71	87.86	1.00	1.01	1.01	1.01	1.00	1.01
100	0.01	0.01	88.41	88.54	1.01	1.01	1.01	1.01	1.00	1.00
200	0.01	0.02	89.79	94.48	1.00	1.00	1.02	1.01	1.00	1.01
300	0.02	0.02	87.70	96.05	1.01	1.01	1.02	1.01	1.00	1.01
400	0.02	0.03	92.29	89.76	1.01	1.02	1.02	1.02	1.01	1.02
500	0.02	0.03	102.68	88.15	1.02	1.02	1.02	1.02	1.01	1.02
600	0.03	0.03	105.66	91.04	1.02	1.02	1.02	1.02	1.02	1.02
700	0.02	0.03	92.98	102.39	1.01	1.01	1.01	1.01	1.01	1.01
800	0.03	0.04	95.55	88.76	1.01	1.01	1.01	1.01	1.01	1.01
900	0.02	0.02	100.84	98.23	1.01	1.01	1.01	1.00	1.00	1.01
1000	0.04	0.04	91.62	96.20	1.01	1.01	1.01	1.01	1.01	1.02
1200	0.04	0.04	98.13	101.24	1.01	1.01	1.02	1.01	1.01	1.02
1400	0.04	0.04	97.47	96.66	1.00	1.00	1.02	1.02	1.02	1.02
1600	0.05	0.05	96.63	97.46	1.01	1.00	1.02	1.02	1.02	1.03
1800	0.04	0.04	107.73	101.28	1.01	1.01	1.03	1.03	1.03	1.04
2000	0.05	0.05	95.60	97.47	1.02	1.01	1.04	1.03	1.03	1.05
2500	0.05	0.06	99.08	90.86	1.04	1.03	1.05	1.04	1.04	1.08
3000	0.08	0.07	100.78	94.55	1.07	1.06	1.06	1.05	1.06	1.08
3500	0.07	0.07	99.08	97.14	1.09	1.08	1.08	1.08	1.09	1.10
4000	0.09	0.08	91.77	93.23	1.12	1.11	1.11	1.12	1.12	1.12
5000	0.11	0.11	96.26	98.59	1.18	1.18	1.17	1.19	1.19	1.17
6000	0.15	0.15	97.36	99.85	1.23	1.24	1.20	1.25	1.23	1.16
7000	0.15	0.15	95.03	104.39	1.20	1.20	1.19	1.21	1.20	1.12
8000	0.14	0.14	91.39	107.43	1.16	1.16	1.16	1.17	1.16	1.09
8500	0.16	0.16	91.42	95.58	1.17	1.18	1.15	1.18	1.17	1.09
9000	0.17	0.17	90.81	93.46	1.17	1.19	1.15	1.18	1.16	1.09
9500	0.18	0.18	90.96	89.63	1.16	1.19	1.16	1.19	1.16	1.13
10000	0.17	0.18	92.33	93.16	1.14	1.17	1.14	1.15	1.14	1.12
10500	0.17	0.17	98.56	94.16	1.14	1.15	1.14	1.14	1.14	1.17
11000	0.18	0.18	101.92	104.43	1.14	1.14	1.13	1.14	1.14	1.18
11500	0.15	0.14	97.14	94.53	1.16	1.14	1.15	1.15	1.17	1.21
12000	0.20	0.19	90.30	86.87	1.18	1.14	1.15	1.15	1.17	1.25
13000	0.20	0.19	83.08	81.65	1.15	1.12	1.14	1.19	1.19	1.26
14000	0.21	0.22	82.74	78.92	1.20	1.19	1.20	1.20	1.19	1.33
15000	0.25	0.27	80.63	78.27	1.21	1.22	1.27	1.24	1.22	1.36
16000	0.24	0.28	86.91	87.50	1.14	1.16	1.26	1.14	1.17	1.32
17000	0.14	0.18	84.03	82.75	1.03	1.06	1.16	1.12	1.03	1.14
18000	0.22	0.23	75.51	73.54	1.02	1.10	1.17	1.10	1.03	1.17
19000	0.25	0.30	71.55	69.14	1.20	1.27	1.34	1.22	1.16	1.36
20000	0.35	0.51	72.05	68.93	1.38	1.51	1.47	1.65	1.44	1.37



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Xtra Long Life USB RF SPDT Switch D

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Typical Performance Data

TEST CONDITIONS: @Temperature = 0degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.03	0.04	90.90	87.82	1.01	1.02	1.01	1.01	1.01	1.01
50	0.00	0.01	87.31	87.26	1.01	1.01	1.01	1.00	1.00	1.01
100	0.01	0.01	87.85	87.98	1.01	1.01	1.02	1.01	1.01	1.01
200	0.01	0.01	88.54	85.84	1.00	1.00	1.03	1.01	1.01	1.02
300	0.02	0.02	94.06	93.56	1.01	1.01	1.03	1.01	1.01	1.02
400	0.02	0.02	98.12	93.17	1.02	1.02	1.03	1.02	1.02	1.03
500	0.02	0.02	95.80	93.45	1.02	1.02	1.02	1.02	1.02	1.02
600	0.03	0.02	107.49	99.65	1.02	1.02	1.02	1.02	1.02	1.02
700	0.03	0.02	101.93	96.12	1.01	1.01	1.01	1.01	1.00	1.02
800	0.02	0.03	99.49	104.58	1.01	1.01	1.01	1.01	1.00	1.02
900	0.02	0.02	90.16	105.02	1.01	1.00	1.01	1.01	1.01	1.02
1000	0.04	0.03	91.89	104.91	1.01	1.01	1.02	1.02	1.01	1.02
1200	0.03	0.04	99.36	100.57	1.00	1.01	1.02	1.02	1.01	1.03
1400	0.03	0.03	98.29	96.62	1.01	1.01	1.03	1.02	1.03	1.03
1600	0.04	0.05	97.32	91.16	1.01	1.01	1.03	1.02	1.03	1.03
1800	0.03	0.03	120.26	97.39	1.01	1.01	1.05	1.03	1.03	1.04
2000	0.04	0.04	91.28	91.84	1.01	1.01	1.05	1.03	1.03	1.04
2500	0.05	0.05	91.53	98.42	1.03	1.03	1.07	1.04	1.04	1.06
3000	0.07	0.07	89.69	85.27	1.06	1.06	1.07	1.05	1.06	1.06
3500	0.06	0.07	104.92	88.50	1.07	1.08	1.08	1.08	1.07	1.08
4000	0.07	0.08	92.76	92.48	1.09	1.12	1.10	1.12	1.10	1.11
5000	0.10	0.10	104.22	94.63	1.15	1.17	1.14	1.18	1.16	1.14
6000	0.14	0.14	95.88	96.09	1.22	1.21	1.14	1.21	1.23	1.13
7000	0.14	0.13	93.03	84.88	1.17	1.17	1.11	1.17	1.18	1.11
8000	0.12	0.13	91.73	83.15	1.12	1.13	1.07	1.14	1.13	1.08
8500	0.14	0.15	87.12	84.49	1.14	1.15	1.07	1.15	1.14	1.09
9000	0.15	0.16	87.17	84.57	1.14	1.16	1.07	1.15	1.13	1.08
9500	0.16	0.17	86.85	85.35	1.14	1.16	1.10	1.16	1.14	1.11
10000	0.16	0.17	94.19	86.58	1.12	1.15	1.10	1.14	1.11	1.12
10500	0.15	0.16	98.02	92.50	1.11	1.15	1.12	1.14	1.10	1.15
11000	0.16	0.17	109.77	102.02	1.11	1.14	1.14	1.14	1.10	1.17
11500	0.13	0.14	97.63	94.22	1.13	1.15	1.18	1.16	1.14	1.20
12000	0.19	0.19	88.98	87.81	1.13	1.15	1.20	1.15	1.13	1.22
13000	0.19	0.19	83.57	81.14	1.14	1.12	1.24	1.18	1.19	1.21
14000	0.22	0.20	80.80	77.31	1.23	1.15	1.34	1.16	1.24	1.25
15000	0.26	0.24	79.74	75.43	1.28	1.17	1.41	1.18	1.28	1.27
16000	0.26	0.25	87.44	82.10	1.20	1.11	1.36	1.10	1.21	1.23
17000	0.14	0.16	88.02	78.95	1.05	1.08	1.20	1.13	1.06	1.14
18000	0.18	0.20	76.41	71.59	1.01	1.09	1.25	1.10	1.04	1.25
19000	0.24	0.25	72.26	68.96	1.19	1.22	1.45	1.21	1.16	1.43
20000	0.47	0.46	72.57	70.77	1.42	1.44	1.47	1.59	1.57	1.42



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Xtra Long Life USB RF SPDT Switch A

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Typical Performance Data

TEST CONDITIONS: @Temperature = +25degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.07	0.04	91.23	93.22	1.01	1.01	1.01	1.02	1.02	1.00
50	0.01	0.01	87.12	88.65	1.00	1.00	1.00	1.00	1.00	1.01
100	0.02	0.02	87.52	86.46	1.00	1.00	1.00	1.00	1.00	1.01
200	0.02	0.02	91.82	98.96	1.00	1.00	1.00	1.00	1.00	1.02
300	0.02	0.02	93.80	98.48	1.00	1.00	1.01	1.01	1.00	1.02
400	0.03	0.02	95.57	115.51	1.00	1.00	1.01	1.00	1.00	1.02
500	0.03	0.02	97.40	92.94	1.01	1.01	1.01	1.00	1.00	1.02
600	0.04	0.04	96.28	96.07	1.01	1.01	1.01	1.00	1.00	1.02
700	0.04	0.04	104.76	95.28	1.01	1.01	1.01	1.01	1.01	1.02
800	0.04	0.04	93.34	96.62	1.01	1.01	1.01	1.01	1.01	1.02
900	0.04	0.03	92.83	102.07	1.01	1.01	1.01	1.01	1.01	1.02
1000	0.04	0.04	94.82	93.18	1.01	1.01	1.02	1.01	1.01	1.02
1200	0.05	0.06	104.86	109.06	1.02	1.01	1.02	1.01	1.01	1.02
1400	0.05	0.05	98.72	98.75	1.02	1.01	1.02	1.01	1.01	1.02
1600	0.06	0.06	93.71	94.21	1.01	1.01	1.03	1.01	1.01	1.02
1800	0.06	0.05	99.46	92.54	1.01	1.02	1.04	1.02	1.01	1.03
2000	0.06	0.06	92.42	94.14	1.01	1.02	1.04	1.02	1.02	1.03
2500	0.06	0.06	114.87	100.48	1.03	1.03	1.06	1.03	1.03	1.04
3000	0.08	0.08	101.01	95.25	1.06	1.05	1.07	1.05	1.05	1.05
3500	0.09	0.08	94.44	94.07	1.10	1.09	1.10	1.10	1.11	1.08
4000	0.10	0.09	97.64	93.50	1.12	1.12	1.10	1.12	1.13	1.09
5000	0.14	0.13	100.11	105.08	1.18	1.19	1.14	1.19	1.18	1.14
6000	0.16	0.16	94.44	97.03	1.21	1.22	1.16	1.23	1.23	1.16
7000	0.16	0.15	95.84	93.50	1.17	1.17	1.16	1.17	1.18	1.16
8000	0.14	0.15	88.01	88.43	1.11	1.12	1.11	1.14	1.12	1.13
8500	0.16	0.17	91.72	85.11	1.13	1.13	1.12	1.14	1.13	1.13
9000	0.17	0.18	89.63	87.74	1.10	1.10	1.07	1.10	1.09	1.09
9500	0.18	0.19	88.59	91.01	1.13	1.14	1.11	1.15	1.15	1.14
10000	0.18	0.19	93.87	89.10	1.11	1.11	1.08	1.10	1.11	1.09
10500	0.20	0.19	103.37	92.71	1.14	1.14	1.11	1.14	1.13	1.13
11000	0.22	0.21	98.35	99.07	1.17	1.16	1.14	1.17	1.18	1.15
11500	0.19	0.18	89.98	99.94	1.18	1.19	1.12	1.19	1.18	1.14
12000	0.25	0.24	86.46	113.12	1.22	1.23	1.18	1.24	1.23	1.21
13000	0.25	0.23	80.53	90.00	1.17	1.19	1.19	1.23	1.22	1.24
14000	0.23	0.22	77.42	89.66	1.16	1.16	1.20	1.16	1.16	1.24
15000	0.25	0.24	76.89	83.57	1.12	1.10	1.20	1.09	1.10	1.24
16000	0.25	0.23	89.76	89.16	1.05	1.05	1.13	1.02	1.06	1.20
17000	0.20	0.15	74.13	88.99	1.02	1.02	1.14	1.02	1.02	1.17
18000	0.32	0.26	65.89	74.26	1.18	1.19	1.26	1.18	1.21	1.26
19000	0.39	0.34	63.18	70.16	1.30	1.36	1.38	1.33	1.31	1.39
20000	0.45	0.44	65.48	70.55	1.35	1.40	1.36	1.39	1.34	1.32



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Xtra Long Life USB RF SPDT Switch B

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Typical Performance Data

TEST CONDITIONS: @Temperature = +25degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.04	0.00	89.41	96.12	1.00	1.01	1.01	1.02	1.01	1.02
50	0.01	0.01	88.60	85.98	1.00	1.00	1.02	1.00	1.00	1.01
100	0.02	0.01	87.82	86.04	1.00	1.00	1.02	1.00	1.00	1.01
200	0.02	0.01	88.30	92.49	1.00	1.00	1.02	1.00	1.00	1.01
300	0.02	0.01	86.42	85.71	1.00	1.00	1.02	1.01	1.00	1.01
400	0.03	0.02	90.31	103.69	1.00	1.00	1.02	1.00	1.01	1.01
500	0.03	0.02	90.85	105.88	1.00	1.01	1.02	1.00	1.00	1.01
600	0.03	0.03	97.48	96.04	1.01	1.01	1.02	1.00	1.01	1.01
700	0.04	0.04	94.69	106.31	1.00	1.00	1.02	1.00	1.01	1.01
800	0.04	0.03	92.23	102.91	1.01	1.01	1.02	1.01	1.01	1.01
900	0.03	0.03	100.28	101.90	1.01	1.01	1.02	1.01	1.01	1.01
1000	0.05	0.03	112.37	100.72	1.01	1.00	1.02	1.01	1.01	1.01
1200	0.06	0.05	97.99	99.92	1.00	1.01	1.03	1.02	1.02	1.02
1400	0.05	0.05	97.32	94.12	1.00	1.00	1.02	1.02	1.02	1.02
1600	0.07	0.06	93.63	101.66	1.01	1.01	1.03	1.02	1.02	1.03
1800	0.05	0.05	96.83	96.02	1.01	1.01	1.03	1.03	1.03	1.04
2000	0.06	0.06	91.47	102.18	1.01	1.01	1.03	1.03	1.03	1.05
2500	0.07	0.06	86.84	113.20	1.03	1.03	1.04	1.04	1.04	1.07
3000	0.09	0.08	94.81	87.84	1.05	1.05	1.05	1.06	1.05	1.09
3500	0.08	0.08	93.70	97.99	1.07	1.08	1.09	1.09	1.07	1.11
4000	0.09	0.09	91.15	95.63	1.09	1.10	1.10	1.11	1.10	1.12
5000	0.13	0.13	95.46	100.63	1.14	1.16	1.16	1.17	1.15	1.14
6000	0.16	0.17	97.06	93.26	1.19	1.22	1.20	1.23	1.19	1.14
7000	0.17	0.17	105.03	103.42	1.17	1.20	1.19	1.21	1.18	1.12
8000	0.18	0.16	91.80	89.22	1.14	1.16	1.13	1.17	1.15	1.10
8500	0.19	0.18	87.66	88.77	1.15	1.17	1.13	1.16	1.14	1.12
9000	0.20	0.19	86.55	90.76	1.14	1.13	1.10	1.13	1.13	1.10
9500	0.21	0.19	87.66	90.38	1.13	1.13	1.14	1.13	1.12	1.12
10000	0.21	0.19	87.72	92.89	1.11	1.09	1.09	1.09	1.10	1.13
10500	0.21	0.19	89.72	98.90	1.11	1.10	1.13	1.10	1.10	1.14
11000	0.23	0.21	94.78	96.20	1.13	1.11	1.09	1.11	1.12	1.18
11500	0.20	0.18	94.12	95.47	1.15	1.12	1.09	1.14	1.16	1.18
12000	0.26	0.23	90.35	84.25	1.17	1.14	1.12	1.14	1.17	1.23
13000	0.28	0.24	82.68	81.17	1.15	1.12	1.13	1.15	1.21	1.26
14000	0.28	0.24	80.47	79.93	1.16	1.15	1.17	1.16	1.19	1.32
15000	0.33	0.26	81.39	79.53	1.15	1.13	1.21	1.13	1.18	1.32
16000	0.31	0.26	86.87	87.95	1.07	1.05	1.16	1.04	1.06	1.24
17000	0.23	0.18	84.48	77.03	1.03	1.05	1.14	1.05	1.08	1.21
18000	0.30	0.27	74.86	72.32	1.13	1.11	1.31	1.09	1.10	1.29
19000	0.32	0.29	71.98	73.78	1.21	1.20	1.44	1.13	1.17	1.36
20000	0.36	0.36	72.16	75.43	1.24	1.23	1.46	1.23	1.28	1.29



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Xtra Long Life USB RF SPDT Switch C

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Typical Performance Data

TEST CONDITIONS: @Temperature = +25degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.03	0.04	95.88	92.52	1.01	1.01	1.00	1.02	1.02	1.01
50	0.00	0.00	88.55	88.41	1.00	1.00	1.01	1.00	1.00	1.01
100	0.01	0.01	88.01	95.72	1.00	1.00	1.01	1.00	1.00	1.01
200	0.01	0.02	93.09	87.55	1.00	1.00	1.01	1.00	1.00	1.01
300	0.01	0.02	97.02	89.65	1.00	1.00	1.01	1.01	1.01	1.01
400	0.02	0.02	93.61	87.96	1.00	1.00	1.01	1.00	1.00	1.01
500	0.02	0.03	97.01	102.17	1.01	1.01	1.01	1.00	1.00	1.01
600	0.03	0.03	89.78	93.43	1.01	1.01	1.01	1.00	1.00	1.01
700	0.04	0.04	88.81	93.38	1.00	1.00	1.01	1.00	1.00	1.01
800	0.03	0.03	94.11	101.26	1.01	1.01	1.01	1.01	1.01	1.01
900	0.03	0.03	94.59	93.77	1.01	1.01	1.01	1.01	1.01	1.01
1000	0.03	0.03	103.10	97.74	1.01	1.00	1.02	1.01	1.01	1.02
1200	0.05	0.05	102.08	98.59	1.01	1.01	1.02	1.01	1.01	1.02
1400	0.05	0.05	102.23	105.49	1.01	1.00	1.02	1.01	1.01	1.02
1600	0.06	0.05	95.68	100.47	1.01	1.01	1.02	1.02	1.02	1.03
1800	0.05	0.05	92.92	94.54	1.01	1.01	1.03	1.02	1.02	1.04
2000	0.06	0.06	93.82	92.41	1.01	1.01	1.03	1.03	1.02	1.05
2500	0.06	0.05	92.79	97.46	1.03	1.03	1.04	1.03	1.03	1.07
3000	0.08	0.08	97.01	91.60	1.05	1.05	1.06	1.05	1.05	1.09
3500	0.08	0.08	97.66	97.38	1.08	1.08	1.09	1.09	1.09	1.11
4000	0.09	0.08	94.44	99.72	1.10	1.11	1.11	1.11	1.11	1.13
5000	0.13	0.13	101.18	91.92	1.17	1.18	1.16	1.18	1.17	1.14
6000	0.17	0.17	100.60	100.09	1.22	1.22	1.19	1.23	1.23	1.15
7000	0.18	0.17	97.43	102.79	1.21	1.20	1.20	1.20	1.21	1.12
8000	0.17	0.16	93.09	93.72	1.18	1.17	1.17	1.18	1.19	1.09
8500	0.18	0.18	87.42	90.85	1.19	1.19	1.17	1.20	1.20	1.09
9000	0.20	0.19	88.46	89.35	1.17	1.17	1.14	1.16	1.17	1.09
9500	0.21	0.20	89.16	92.80	1.18	1.19	1.16	1.20	1.18	1.11
10000	0.21	0.20	96.00	105.58	1.14	1.16	1.13	1.14	1.14	1.11
10500	0.21	0.20	95.41	97.17	1.15	1.17	1.15	1.17	1.15	1.15
11000	0.23	0.21	105.89	100.15	1.15	1.18	1.15	1.18	1.16	1.19
11500	0.21	0.19	91.87	88.75	1.18	1.19	1.15	1.20	1.18	1.21
12000	0.26	0.24	89.40	86.32	1.20	1.22	1.17	1.23	1.20	1.26
13000	0.28	0.23	85.13	83.94	1.17	1.17	1.17	1.22	1.21	1.28
14000	0.28	0.22	83.29	79.50	1.18	1.15	1.20	1.16	1.19	1.33
15000	0.29	0.23	79.69	79.55	1.16	1.11	1.23	1.09	1.15	1.30
16000	0.28	0.23	87.37	88.27	1.07	1.05	1.18	1.01	1.05	1.21
17000	0.20	0.15	85.88	81.85	1.02	1.07	1.17	1.08	1.04	1.17
18000	0.30	0.26	76.64	74.75	1.15	1.19	1.24	1.17	1.12	1.23
19000	0.32	0.29	72.87	69.00	1.23	1.29	1.34	1.25	1.21	1.26
20000	0.39	0.37	72.79	69.12	1.24	1.30	1.34	1.30	1.25	1.20



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Xtra Long Life USB RF SPDT Switch D

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Typical Performance Data

TEST CONDITIONS: @Temperature = +25degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.04	0.03	94.39	86.23	1.01	1.01	1.01	1.02	1.02	1.00
50	0.00	0.00	95.38	88.41	1.00	1.00	1.01	1.00	1.00	1.01
100	0.01	0.01	92.05	86.32	1.00	1.00	1.01	1.00	1.00	1.01
200	0.01	0.01	93.88	91.84	1.00	1.00	1.02	1.00	1.00	1.01
300	0.01	0.01	91.96	99.14	1.00	1.00	1.02	1.01	1.00	1.01
400	0.02	0.01	94.74	94.65	1.00	1.00	1.02	1.00	1.00	1.01
500	0.02	0.02	108.98	95.31	1.01	1.01	1.02	1.00	1.00	1.01
600	0.03	0.03	93.22	92.90	1.01	1.01	1.02	1.00	1.00	1.01
700	0.04	0.03	92.20	103.35	1.00	1.00	1.02	1.00	1.01	1.01
800	0.04	0.03	102.30	95.03	1.01	1.01	1.02	1.01	1.01	1.02
900	0.03	0.03	102.15	100.88	1.01	1.01	1.02	1.01	1.01	1.02
1000	0.04	0.04	98.29	94.83	1.01	1.00	1.02	1.01	1.01	1.02
1200	0.05	0.05	105.31	91.47	1.01	1.01	1.02	1.01	1.01	1.02
1400	0.05	0.04	95.66	104.68	1.01	1.01	1.02	1.01	1.01	1.02
1600	0.05	0.05	104.83	101.56	1.00	1.01	1.03	1.02	1.02	1.03
1800	0.05	0.05	92.10	95.21	1.01	1.01	1.04	1.02	1.02	1.04
2000	0.06	0.05	103.94	91.46	1.01	1.01	1.04	1.03	1.03	1.04
2500	0.06	0.05	87.14	94.55	1.02	1.03	1.05	1.03	1.02	1.05
3000	0.08	0.08	94.72	95.87	1.04	1.05	1.07	1.05	1.04	1.06
3500	0.08	0.08	100.92	102.09	1.07	1.08	1.09	1.08	1.08	1.09
4000	0.09	0.09	97.68	96.96	1.09	1.10	1.09	1.10	1.09	1.09
5000	0.12	0.13	101.88	100.95	1.15	1.16	1.13	1.16	1.15	1.12
6000	0.15	0.15	99.88	95.11	1.21	1.20	1.14	1.20	1.21	1.14
7000	0.16	0.16	95.82	94.43	1.19	1.19	1.13	1.18	1.19	1.14
8000	0.16	0.16	90.24	92.93	1.15	1.15	1.10	1.16	1.16	1.11
8500	0.17	0.18	91.05	96.41	1.17	1.17	1.11	1.17	1.16	1.13
9000	0.19	0.19	89.99	88.30	1.13	1.15	1.08	1.14	1.12	1.09
9500	0.19	0.19	86.11	91.94	1.14	1.17	1.11	1.18	1.15	1.13
10000	0.19	0.19	97.49	93.29	1.10	1.13	1.11	1.12	1.10	1.11
10500	0.19	0.19	95.12	97.12	1.10	1.15	1.11	1.14	1.10	1.14
11000	0.21	0.20	101.65	102.11	1.11	1.15	1.16	1.15	1.12	1.18
11500	0.18	0.18	93.02	95.62	1.13	1.16	1.14	1.16	1.13	1.17
12000	0.24	0.22	90.43	87.96	1.17	1.18	1.22	1.19	1.17	1.23
13000	0.26	0.22	84.16	85.54	1.17	1.13	1.26	1.14	1.19	1.23
14000	0.26	0.21	79.00	78.78	1.20	1.12	1.32	1.13	1.19	1.23
15000	0.29	0.23	80.56	78.65	1.18	1.08	1.33	1.07	1.16	1.19
16000	0.27	0.23	86.79	86.16	1.09	1.02	1.28	1.01	1.10	1.15
17000	0.19	0.18	84.87	77.86	1.05	1.06	1.22	1.05	1.05	1.16
18000	0.29	0.27	74.05	68.68	1.09	1.10	1.26	1.13	1.13	1.27
19000	0.34	0.28	71.56	65.42	1.16	1.19	1.36	1.23	1.17	1.37
20000	0.42	0.36	70.74	67.22	1.24	1.25	1.33	1.26	1.22	1.29



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Xtra Long Life USB RF SPDT Switch A

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Typical Performance Data

TEST CONDITIONS: @Temperature = +50degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.05	0.03	90.85	86.65	1.00	1.01	1.01	1.02	1.02	1.01
50	0.01	0.00	87.02	89.76	1.00	1.00	1.00	1.00	1.00	1.01
100	0.00	0.00	88.77	86.22	1.01	1.00	1.01	1.01	1.01	1.01
200	0.00	0.01	95.08	85.29	1.00	1.00	1.01	1.01	1.00	1.01
300	0.01	0.02	87.07	87.85	1.00	1.00	1.01	1.01	1.00	1.01
400	0.00	0.01	94.12	93.95	1.01	1.01	1.00	1.00	1.01	1.01
500	0.00	0.02	98.90	92.41	1.01	1.01	1.00	1.01	1.01	1.02
600	0.02	0.03	93.02	90.59	1.01	1.01	1.01	1.01	1.01	1.02
700	0.03	0.04	98.20	89.23	1.01	1.01	1.01	1.01	1.01	1.02
800	0.02	0.03	100.23	95.48	1.02	1.01	1.01	1.01	1.01	1.02
900	0.02	0.03	104.77	100.27	1.02	1.01	1.01	1.01	1.01	1.02
1000	0.02	0.04	104.88	96.37	1.02	1.01	1.02	1.01	1.00	1.02
1200	0.03	0.05	96.45	103.01	1.02	1.01	1.02	1.01	1.01	1.02
1400	0.04	0.05	95.52	103.04	1.02	1.01	1.02	1.01	1.01	1.02
1600	0.04	0.05	110.60	98.81	1.02	1.02	1.03	1.01	1.01	1.02
1800	0.04	0.06	98.89	101.77	1.02	1.02	1.04	1.02	1.02	1.03
2000	0.05	0.06	93.31	94.74	1.02	1.01	1.04	1.02	1.02	1.03
2500	0.05	0.06	92.91	97.46	1.04	1.03	1.05	1.03	1.04	1.04
3000	0.07	0.08	96.40	92.51	1.04	1.04	1.06	1.04	1.04	1.05
3500	0.07	0.08	96.66	91.65	1.09	1.08	1.09	1.09	1.10	1.08
4000	0.08	0.09	99.65	97.05	1.12	1.11	1.09	1.12	1.12	1.08
5000	0.13	0.15	97.84	99.68	1.19	1.18	1.13	1.18	1.19	1.13
6000	0.15	0.18	98.35	99.62	1.22	1.22	1.17	1.23	1.24	1.17
7000	0.15	0.18	98.06	98.72	1.16	1.17	1.16	1.18	1.17	1.16
8000	0.15	0.18	88.62	88.01	1.12	1.13	1.12	1.15	1.13	1.12
8500	0.17	0.21	93.65	88.48	1.16	1.14	1.14	1.15	1.16	1.14
9000	0.17	0.23	89.75	88.78	1.12	1.12	1.06	1.10	1.10	1.08
9500	0.17	0.24	88.46	89.36	1.13	1.14	1.13	1.15	1.16	1.15
10000	0.18	0.25	95.13	87.80	1.10	1.11	1.08	1.08	1.11	1.08
10500	0.18	0.27	102.71	100.82	1.13	1.15	1.11	1.13	1.12	1.13
11000	0.21	0.30	91.33	102.20	1.17	1.17	1.15	1.18	1.19	1.16
11500	0.17	0.28	90.62	92.96	1.18	1.20	1.10	1.20	1.17	1.12
12000	0.24	0.34	85.11	89.91	1.25	1.26	1.20	1.30	1.27	1.24
13000	0.22	0.32	80.21	85.37	1.18	1.20	1.19	1.27	1.23	1.25
14000	0.22	0.29	77.41	78.58	1.15	1.15	1.19	1.16	1.15	1.23
15000	0.25	0.29	77.55	77.64	1.11	1.09	1.18	1.05	1.06	1.20
16000	0.23	0.28	88.12	84.33	1.05	1.03	1.17	1.05	1.07	1.18
17000	0.17	0.19	74.51	79.34	1.05	1.01	1.16	1.02	1.06	1.17
18000	0.30	0.31	66.79	73.87	1.22	1.22	1.27	1.24	1.26	1.29
19000	0.33	0.36	65.72	71.19	1.29	1.40	1.39	1.39	1.32	1.43
20000	0.42	0.45	67.78	72.53	1.28	1.39	1.38	1.40	1.35	1.34



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Xtra Long Life USB RF SPDT Switch B

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Typical Performance Data

TEST CONDITIONS: @Temperature = +50degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.04	0.04	90.89	90.57	1.01	1.00	1.01	1.01	1.02	1.02
50	0.00	0.00	87.97	86.87	1.00	1.00	1.02	1.00	1.00	1.01
100	0.00	0.00	90.22	86.87	1.01	1.01	1.02	1.01	1.01	1.01
200	0.00	0.00	92.53	94.56	1.00	1.00	1.02	1.01	1.00	1.01
300	0.01	0.01	96.13	87.15	1.00	1.00	1.02	1.01	1.00	1.01
400	0.01	0.01	100.63	92.68	1.01	1.01	1.02	1.01	1.01	1.01
500	0.01	0.01	96.56	100.39	1.01	1.01	1.02	1.01	1.01	1.00
600	0.03	0.03	95.83	95.28	1.01	1.01	1.02	1.01	1.01	1.00
700	0.03	0.03	91.43	96.31	1.01	1.01	1.02	1.01	1.01	1.00
800	0.03	0.03	101.68	96.99	1.01	1.01	1.02	1.01	1.01	1.01
900	0.03	0.02	94.86	96.71	1.01	1.01	1.02	1.01	1.01	1.01
1000	0.03	0.03	100.89	108.77	1.01	1.01	1.03	1.01	1.01	1.02
1200	0.04	0.04	97.71	92.50	1.01	1.01	1.03	1.02	1.01	1.02
1400	0.04	0.05	98.18	97.66	1.00	1.00	1.03	1.02	1.02	1.03
1600	0.05	0.05	92.06	103.92	1.01	1.01	1.02	1.03	1.02	1.03
1800	0.05	0.05	94.49	95.29	1.02	1.02	1.03	1.04	1.03	1.05
2000	0.05	0.05	97.20	94.27	1.01	1.02	1.03	1.05	1.04	1.05
2500	0.06	0.06	94.52	94.66	1.03	1.04	1.03	1.05	1.04	1.08
3000	0.07	0.07	110.61	94.84	1.04	1.06	1.04	1.06	1.04	1.10
3500	0.07	0.08	101.04	92.39	1.07	1.09	1.08	1.10	1.08	1.12
4000	0.08	0.10	110.35	102.04	1.10	1.12	1.10	1.12	1.10	1.13
5000	0.12	0.14	94.38	91.75	1.16	1.19	1.16	1.19	1.16	1.15
6000	0.15	0.16	94.11	98.36	1.19	1.22	1.21	1.23	1.21	1.14
7000	0.14	0.15	94.90	94.72	1.15	1.16	1.19	1.17	1.16	1.09
8000	0.14	0.15	88.58	87.74	1.12	1.13	1.15	1.13	1.13	1.07
8500	0.17	0.17	87.26	90.06	1.15	1.15	1.15	1.16	1.16	1.08
9000	0.18	0.18	88.94	88.67	1.12	1.11	1.10	1.09	1.11	1.07
9500	0.18	0.18	85.88	90.75	1.14	1.12	1.15	1.14	1.17	1.09
10000	0.19	0.18	99.07	90.89	1.10	1.08	1.07	1.06	1.09	1.09
10500	0.20	0.20	89.41	95.23	1.14	1.12	1.13	1.12	1.15	1.11
11000	0.21	0.20	111.82	101.52	1.16	1.14	1.08	1.14	1.16	1.14
11500	0.19	0.18	94.39	94.21	1.18	1.17	1.08	1.16	1.18	1.17
12000	0.25	0.25	87.29	86.43	1.23	1.22	1.14	1.25	1.26	1.24
13000	0.24	0.24	84.04	80.17	1.17	1.17	1.13	1.22	1.23	1.29
14000	0.23	0.23	80.67	79.62	1.13	1.11	1.16	1.11	1.14	1.32
15000	0.25	0.24	79.93	79.75	1.08	1.04	1.18	1.02	1.04	1.25
16000	0.24	0.24	86.68	90.21	1.02	1.04	1.18	1.09	1.05	1.18
17000	0.18	0.17	88.03	82.43	1.02	1.06	1.16	1.05	1.02	1.24
18000	0.30	0.28	74.51	75.38	1.20	1.20	1.33	1.21	1.20	1.33
19000	0.32	0.28	72.37	74.78	1.29	1.29	1.49	1.30	1.29	1.39
20000	0.38	0.35	71.90	76.28	1.28	1.23	1.46	1.28	1.29	1.27



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Xtra Long Life USB RF SPDT Switch C

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Typical Performance Data

TEST CONDITIONS: @Temperature = +50degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.02	0.02	95.57	94.00	1.01	1.02	1.01	1.01	1.01	1.01
50	0.00	0.01	92.12	98.58	1.00	1.00	1.01	1.00	1.00	1.01
100	0.01	0.01	86.93	86.33	1.00	1.00	1.01	1.00	1.00	1.01
200	0.01	0.02	105.72	87.64	1.00	1.00	1.01	1.00	1.00	1.01
300	0.02	0.02	88.27	103.30	1.01	1.00	1.01	1.00	1.00	1.01
400	0.02	0.03	92.52	92.99	1.00	1.00	1.01	1.00	1.00	1.01
500	0.02	0.03	90.18	93.07	1.01	1.00	1.01	1.00	1.00	1.01
600	0.03	0.04	93.44	98.50	1.01	1.01	1.02	1.01	1.01	1.01
700	0.03	0.04	96.95	92.15	1.01	1.01	1.02	1.01	1.01	1.00
800	0.03	0.03	104.15	103.66	1.01	1.01	1.02	1.01	1.01	1.01
900	0.02	0.03	104.43	97.17	1.01	1.01	1.02	1.01	1.01	1.01
1000	0.04	0.04	92.88	99.64	1.01	1.01	1.02	1.01	1.01	1.01
1200	0.05	0.05	105.74	91.80	1.01	1.00	1.02	1.01	1.01	1.02
1400	0.05	0.05	94.83	98.48	1.00	1.00	1.02	1.02	1.01	1.02
1600	0.06	0.06	97.63	91.05	1.01	1.00	1.02	1.02	1.02	1.03
1800	0.04	0.05	99.25	97.06	1.01	1.01	1.03	1.02	1.02	1.04
2000	0.05	0.06	98.98	96.43	1.02	1.01	1.03	1.02	1.02	1.05
2500	0.06	0.07	98.24	91.84	1.03	1.03	1.05	1.04	1.04	1.07
3000	0.08	0.08	96.50	103.50	1.06	1.06	1.07	1.05	1.06	1.09
3500	0.08	0.09	100.42	103.34	1.08	1.08	1.09	1.08	1.09	1.11
4000	0.10	0.11	97.22	102.26	1.12	1.12	1.12	1.12	1.13	1.13
5000	0.13	0.14	94.93	111.68	1.18	1.19	1.17	1.19	1.19	1.16
6000	0.16	0.18	98.04	97.03	1.22	1.24	1.19	1.23	1.22	1.16
7000	0.16	0.19	96.29	91.62	1.19	1.20	1.18	1.20	1.19	1.14
8000	0.17	0.19	92.10	93.74	1.17	1.18	1.16	1.19	1.17	1.11
8500	0.18	0.21	89.41	97.19	1.18	1.19	1.16	1.20	1.18	1.11
9000	0.19	0.21	89.66	92.46	1.18	1.18	1.14	1.18	1.17	1.10
9500	0.20	0.22	89.31	92.95	1.17	1.15	1.14	1.17	1.16	1.11
10000	0.20	0.21	89.90	88.62	1.15	1.13	1.14	1.14	1.14	1.11
10500	0.20	0.21	94.78	97.71	1.15	1.13	1.15	1.14	1.15	1.14
11000	0.21	0.22	104.77	96.27	1.18	1.15	1.15	1.16	1.17	1.16
11500	0.18	0.20	91.87	97.18	1.20	1.17	1.17	1.18	1.20	1.20
12000	0.25	0.26	89.22	93.74	1.22	1.20	1.19	1.21	1.22	1.25
13000	0.25	0.25	85.74	81.24	1.19	1.16	1.19	1.21	1.24	1.30
14000	0.23	0.24	81.80	80.13	1.17	1.14	1.23	1.13	1.18	1.35
15000	0.27	0.27	82.34	79.14	1.14	1.08	1.22	1.10	1.16	1.29
16000	0.27	0.27	86.21	83.03	1.07	1.06	1.16	1.02	1.05	1.20
17000	0.20	0.19	85.63	81.67	1.04	1.07	1.15	1.11	1.08	1.19
18000	0.30	0.28	74.32	74.55	1.18	1.22	1.27	1.18	1.16	1.26
19000	0.31	0.31	71.81	68.85	1.27	1.34	1.35	1.29	1.24	1.27
20000	0.35	0.35	71.81	68.52	1.23	1.31	1.32	1.33	1.27	1.17



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Xtra Long Life USB RF SPDT Switch D

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Typical Performance Data

TEST CONDITIONS: @Temperature = +50degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR IN (:1)		VSWR ENERGIZED (:1)		VSWR DE-ENERGIZED (:1)	
	COM-1	COM-2	COM-1	COM-2	ON	OFF	1	2	1	2
10	0.02	0.04	88.15	95.65	1.01	1.00	1.01	1.02	1.02	1.00
50	0.00	0.00	91.78	85.68	1.00	1.00	1.02	1.00	1.00	1.01
100	0.01	0.00	88.87	88.82	1.01	1.01	1.02	1.01	1.01	1.01
200	0.01	0.01	86.27	87.89	1.00	1.01	1.01	1.01	1.00	1.01
300	0.01	0.01	86.47	94.02	1.00	1.00	1.01	1.01	1.00	1.01
400	0.01	0.01	95.13	101.34	1.01	1.00	1.01	1.00	1.01	1.01
500	0.02	0.01	105.08	94.35	1.01	1.01	1.02	1.00	1.01	1.01
600	0.02	0.02	94.70	95.09	1.01	1.01	1.02	1.01	1.01	1.01
700	0.03	0.03	97.28	107.32	1.01	1.01	1.02	1.01	1.01	1.01
800	0.02	0.03	93.48	100.44	1.01	1.01	1.02	1.01	1.01	1.02
900	0.02	0.02	98.65	101.98	1.01	1.01	1.02	1.01	1.01	1.02
1000	0.03	0.03	93.57	100.70	1.01	1.01	1.03	1.01	1.01	1.02
1200	0.04	0.05	98.30	101.53	1.01	1.01	1.03	1.01	1.01	1.03
1400	0.05	0.04	94.88	102.44	1.01	1.01	1.03	1.01	1.01	1.03
1600	0.05	0.05	90.73	95.76	1.01	1.02	1.03	1.02	1.02	1.03
1800	0.05	0.05	100.01	91.84	1.01	1.02	1.04	1.03	1.03	1.04
2000	0.05	0.05	94.85	94.66	1.01	1.02	1.05	1.04	1.04	1.05
2500	0.05	0.05	101.09	104.61	1.03	1.04	1.05	1.04	1.03	1.05
3000	0.07	0.08	96.59	95.78	1.04	1.04	1.07	1.04	1.04	1.06
3500	0.08	0.08	96.65	101.73	1.07	1.07	1.10	1.08	1.08	1.09
4000	0.09	0.08	102.53	95.38	1.09	1.10	1.09	1.10	1.10	1.09
5000	0.13	0.14	108.27	102.20	1.16	1.17	1.12	1.17	1.17	1.13
6000	0.16	0.16	100.17	94.88	1.21	1.21	1.15	1.22	1.22	1.16
7000	0.15	0.15	94.17	95.29	1.16	1.15	1.13	1.16	1.17	1.13
8000	0.15	0.17	89.97	86.79	1.13	1.14	1.08	1.15	1.14	1.09
8500	0.18	0.19	89.20	88.08	1.16	1.17	1.12	1.17	1.17	1.13
9000	0.18	0.21	90.07	87.31	1.12	1.16	1.05	1.13	1.11	1.06
9500	0.18	0.22	89.79	93.98	1.14	1.19	1.11	1.20	1.16	1.15
10000	0.19	0.21	93.34	95.79	1.09	1.14	1.10	1.10	1.08	1.11
10500	0.19	0.23	99.33	99.24	1.12	1.18	1.11	1.16	1.13	1.15
11000	0.21	0.24	101.17	91.43	1.14	1.17	1.17	1.16	1.14	1.20
11500	0.18	0.22	95.76	91.26	1.16	1.20	1.14	1.19	1.16	1.17
12000	0.24	0.29	86.32	88.49	1.22	1.22	1.27	1.27	1.24	1.29
13000	0.24	0.28	82.81	82.10	1.19	1.14	1.31	1.24	1.24	1.28
14000	0.24	0.26	78.90	79.66	1.17	1.09	1.31	1.12	1.17	1.22
15000	0.26	0.26	81.33	79.22	1.13	1.03	1.27	1.03	1.09	1.14
16000	0.25	0.24	87.77	87.51	1.06	1.03	1.23	1.07	1.09	1.11
17000	0.19	0.17	90.10	80.01	1.06	1.07	1.20	1.07	1.09	1.14
18000	0.29	0.25	75.55	69.36	1.14	1.13	1.31	1.17	1.18	1.29
19000	0.31	0.26	72.87	65.59	1.22	1.26	1.46	1.31	1.25	1.43
20000	0.40	0.35	72.45	66.92	1.26	1.29	1.39	1.34	1.27	1.34



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