

Xtra Long Life USB/Ethernet RF SPDT

RC-4SPDT-A18

Typical Performance Data

TEST CONDITIONS: @Temperature = 0degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR COM (:1)		VSWR COM->2 (:1)		VSWR COM->1 (: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

Notes

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- C. The parts covered by this specification document are subject to Mini-Circuits' standard limited warranty and terms and conditions (collectively, "Standard Terms"). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/AKCLSales/terms.jsp



Xtra Long Life USB/Ethernet RF SPDT

RC-4SPDT-A18

Typical Performance Data

TEST CONDITIONS: @Temperature = +25degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR COM (:1)		VSWR COM->2 (:1)		VSWR COM->1 (: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

Notes

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Xtra Long Life USB/Ethernet RF SPDT

RC-4SPDT-A18

Typical Performance Data

TEST CONDITIONS: @Temperature = +50degC

FREQUENCY (MHz)	INSERTION LOSS ON (dB)		ISOLATION OFF (dB)		VSWR COM (:1)		VSWR COM->2 (:1)		VSWR COM->1 (: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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