

2 Way-0° Power Splitter/Combiner

TCP-2-10X+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +25°C

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
5.0	3.26	3.11	0.15	30.06	0.37	5.0	1.03	1.17	1.14
6.0	3.26	3.11	0.14	30.60	0.32	6.0	1.03	1.17	1.13
7.0	3.26	3.11	0.14	31.14	0.27	7.0	1.03	1.16	1.13
8.0	3.26	3.12	0.14	31.69	0.22	8.0	1.02	1.15	1.12
9.0	3.26	3.12	0.14	32.23	0.17	9.0	1.02	1.15	1.12
10.0	3.26	3.12	0.14	32.49	0.14	10.0	1.02	1.14	1.12
20.0	3.26	3.12	0.14	33.17	0.01	20.0	1.02	1.13	1.11
30.0	3.26	3.12	0.14	32.77	0.01	30.0	1.02	1.13	1.11
40.0	3.27	3.13	0.14	32.17	0.01	40.0	1.03	1.13	1.11
50.0	3.28	3.14	0.14	31.71	0.05	50.0	1.03	1.13	1.11
60.0	3.29	3.15	0.14	31.24	0.07	60.0	1.03	1.13	1.11
70.0	3.29	3.15	0.14	30.82	0.08	70.0	1.03	1.13	1.11
80.0	3.30	3.16	0.15	30.43	0.08	80.0	1.03	1.13	1.10
90.0	3.31	3.16	0.15	30.07	0.06	90.0	1.03	1.13	1.10
100.0	3.31	3.17	0.14	29.74	0.08	100.0	1.04	1.13	1.10
150.0	3.34	3.20	0.13	28.20	0.17	150.0	1.04	1.12	1.10
200.0	3.36	3.22	0.13	26.90	0.24	200.0	1.05	1.11	1.09
250.0	3.38	3.24	0.13	25.86	0.29	250.0	1.05	1.10	1.08
300.0	3.39	3.26	0.13	24.89	0.38	300.0	1.05	1.09	1.08
350.0	3.41	3.27	0.14	24.11	0.42	350.0	1.06	1.08	1.07
400.0	3.43	3.29	0.14	23.38	0.46	400.0	1.06	1.07	1.07
450.0	3.45	3.31	0.14	22.76	0.52	450.0	1.06	1.05	1.07
500.0	3.47	3.33	0.14	22.24	0.56	500.0	1.07	1.04	1.07
550.0	3.49	3.35	0.14	21.82	0.64	550.0	1.07	1.04	1.07
600.0	3.51	3.37	0.14	21.44	0.71	600.0	1.07	1.04	1.08
650.0	3.54	3.40	0.14	21.14	0.75	650.0	1.07	1.05	1.09
700.0	3.56	3.43	0.13	20.95	0.86	700.0	1.07	1.07	1.10
750.0	3.59	3.45	0.14	20.79	0.92	750.0	1.07	1.08	1.11
800.0	3.62	3.48	0.14	20.68	0.98	800.0	1.07	1.10	1.12
850.0	3.65	3.51	0.14	20.63	1.05	850.0	1.07	1.12	1.14
900.0	3.68	3.55	0.14	20.64	1.16	900.0	1.07	1.14	1.15
950.0	3.72	3.58	0.14	20.64	1.29	950.0	1.07	1.16	1.17
1000.0	3.76	3.63	0.13	20.64	1.38	1000.0	1.07	1.19	1.18

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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2 Way-0° Power Splitter/Combiner

TCP-2-10X+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @ Temperature = -40°C

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
5.0	3.30	3.13	0.17	25.32	1.43	5.0	1.05	1.26	1.20
6.0	3.28	3.13	0.15	26.23	1.30	6.0	1.05	1.24	1.18
7.0	3.27	3.12	0.14	27.13	1.16	7.0	1.04	1.22	1.17
8.0	3.25	3.12	0.13	28.04	1.03	8.0	1.04	1.20	1.16
9.0	3.23	3.12	0.11	28.95	0.89	9.0	1.03	1.18	1.15
10.0	3.23	3.12	0.11	29.65	0.80	10.0	1.03	1.17	1.14
20.0	3.20	3.10	0.09	34.69	0.35	20.0	1.02	1.12	1.11
30.0	3.19	3.10	0.09	37.26	0.24	30.0	1.03	1.11	1.10
40.0	3.19	3.10	0.09	38.23	0.19	40.0	1.03	1.10	1.09
50.0	3.19	3.11	0.09	38.00	0.14	50.0	1.03	1.10	1.09
60.0	3.20	3.11	0.08	36.78	0.12	60.0	1.04	1.09	1.08
70.0	3.20	3.12	0.08	35.28	0.08	70.0	1.04	1.09	1.08
80.0	3.21	3.12	0.09	33.92	0.07	80.0	1.05	1.08	1.08
90.0	3.21	3.13	0.09	32.77	0.08	90.0	1.05	1.08	1.07
100.0	3.21	3.13	0.08	31.89	0.08	100.0	1.06	1.08	1.07
150.0	3.23	3.15	0.08	30.11	0.01	150.0	1.06	1.08	1.08
200.0	3.25	3.17	0.08	28.13	0.09	200.0	1.07	1.10	1.07
250.0	3.26	3.18	0.08	26.22	0.07	250.0	1.08	1.08	1.05
300.0	3.28	3.19	0.08	25.26	0.10	300.0	1.08	1.07	1.06
350.0	3.29	3.21	0.08	24.09	0.13	350.0	1.09	1.06	1.06
400.0	3.30	3.22	0.09	23.38	0.13	400.0	1.09	1.05	1.04
450.0	3.32	3.23	0.09	22.69	0.11	450.0	1.10	1.04	1.04
500.0	3.33	3.24	0.09	22.16	0.12	500.0	1.10	1.03	1.05
550.0	3.34	3.26	0.08	21.83	0.14	550.0	1.09	1.03	1.06
600.0	3.36	3.28	0.08	21.42	0.18	600.0	1.09	1.04	1.07
650.0	3.37	3.29	0.08	21.22	0.19	650.0	1.08	1.05	1.09
700.0	3.39	3.32	0.07	20.82	0.30	700.0	1.09	1.06	1.10
750.0	3.41	3.34	0.08	20.63	0.28	750.0	1.08	1.09	1.11
800.0	3.44	3.36	0.07	20.58	0.32	800.0	1.07	1.11	1.13
850.0	3.46	3.39	0.07	20.43	0.33	850.0	1.08	1.13	1.14
900.0	3.49	3.42	0.07	20.46	0.42	900.0	1.07	1.15	1.15
950.0	3.52	3.45	0.07	20.28	0.47	950.0	1.08	1.16	1.17
1000.0	3.56	3.49	0.07	20.30	0.55	1000.0	1.07	1.19	1.18

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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2 Way-0° Power Splitter/Combiner

TCP-2-10X+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +85°C

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB) 1-2	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
5.0	3.33	3.14	0.19	28.68	0.34	5.0	1.03	1.20	1.15
6.0	3.33	3.14	0.19	28.89	0.29	6.0	1.03	1.20	1.15
7.0	3.33	3.14	0.19	29.11	0.24	7.0	1.03	1.19	1.15
8.0	3.34	3.15	0.19	29.32	0.20	8.0	1.02	1.19	1.15
9.0	3.34	3.15	0.19	29.54	0.15	9.0	1.02	1.19	1.15
10.0	3.34	3.15	0.19	29.60	0.12	10.0	1.02	1.18	1.14
20.0	3.35	3.16	0.19	29.37	0.00	20.0	1.03	1.18	1.14
30.0	3.35	3.16	0.19	28.79	0.02	30.0	1.03	1.18	1.15
40.0	3.36	3.17	0.19	28.19	0.05	40.0	1.04	1.18	1.15
50.0	3.37	3.18	0.19	27.78	0.08	50.0	1.04	1.18	1.15
60.0	3.37	3.19	0.19	27.49	0.09	60.0	1.03	1.18	1.15
70.0	3.38	3.20	0.19	27.36	0.12	70.0	1.02	1.18	1.15
80.0	3.39	3.20	0.19	27.34	0.16	80.0	1.02	1.18	1.15
90.0	3.40	3.21	0.19	27.40	0.16	90.0	1.01	1.18	1.15
100.0	3.40	3.21	0.19	27.48	0.17	100.0	1.02	1.18	1.15
150.0	3.42	3.24	0.18	26.66	0.26	150.0	1.03	1.17	1.13
200.0	3.45	3.27	0.17	25.39	0.35	200.0	1.02	1.14	1.11
250.0	3.46	3.30	0.16	25.22	0.51	250.0	1.02	1.13	1.12
300.0	3.48	3.31	0.17	24.21	0.67	300.0	1.03	1.13	1.11
350.0	3.50	3.33	0.18	23.58	0.75	350.0	1.02	1.11	1.10
400.0	3.52	3.35	0.17	23.15	0.83	400.0	1.03	1.09	1.10
450.0	3.54	3.38	0.16	22.51	0.97	450.0	1.03	1.07	1.09
500.0	3.57	3.40	0.17	22.15	1.07	500.0	1.04	1.06	1.09
550.0	3.59	3.42	0.17	21.80	1.20	550.0	1.04	1.05	1.09
600.0	3.62	3.45	0.16	21.46	1.32	600.0	1.04	1.05	1.09
650.0	3.64	3.48	0.16	21.20	1.41	650.0	1.05	1.06	1.10
700.0	3.67	3.51	0.16	21.04	1.56	700.0	1.05	1.07	1.10
750.0	3.70	3.54	0.16	20.92	1.67	750.0	1.05	1.09	1.11
800.0	3.74	3.59	0.15	20.76	1.82	800.0	1.06	1.10	1.12
850.0	3.77	3.62	0.15	20.72	1.93	850.0	1.06	1.12	1.13
900.0	3.81	3.67	0.15	20.68	2.13	900.0	1.06	1.14	1.15
950.0	3.85	3.71	0.15	20.62	2.29	950.0	1.07	1.16	1.16
1000.0	3.91	3.76	0.14	20.62	2.47	1000.0	1.07	1.18	1.17

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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