

2 Way-0° Power Splitter/Combiner

TCP-2-10-75X+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +25°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	3.37	3.15	0.22	26.42	0.50	5.0	1.04	1.24	1.18
10.0	3.35	3.14	0.21	28.02	0.28	10.0	1.02	1.21	1.16
25.0	3.36	3.15	0.21	28.75	0.06	25.0	1.00	1.19	1.14
50.0	3.37	3.17	0.20	28.66	0.01	50.0	1.02	1.19	1.14
75.0	3.39	3.19	0.20	28.57	0.04	75.0	1.03	1.19	1.14
100.0	3.40	3.19	0.21	28.62	0.05	100.0	1.04	1.19	1.14
150.0	3.42	3.21	0.21	28.73	0.12	150.0	1.07	1.18	1.15
200.0	3.43	3.23	0.20	28.96	0.16	200.0	1.09	1.18	1.16
250.0	3.44	3.25	0.19	29.24	0.21	250.0	1.11	1.18	1.18
300.0	3.46	3.28	0.18	29.33	0.28	300.0	1.13	1.18	1.19
350.0	3.47	3.30	0.17	29.37	0.32	350.0	1.15	1.18	1.20
400.0	3.48	3.33	0.15	29.31	0.36	400.0	1.16	1.18	1.22
425.0	3.50	3.34	0.16	28.92	0.33	425.0	1.17	1.18	1.22
450.0	3.50	3.36	0.14	29.00	0.37	450.0	1.18	1.18	1.23
475.0	3.52	3.36	0.16	28.55	0.37	475.0	1.18	1.18	1.23
500.0	3.52	3.39	0.13	28.66	0.37	500.0	1.18	1.18	1.24
525.0	3.53	3.39	0.14	28.05	0.44	525.0	1.18	1.17	1.24
550.0	3.54	3.41	0.13	28.09	0.37	550.0	1.19	1.17	1.24
575.0	3.55	3.42	0.13	27.49	0.48	575.0	1.19	1.17	1.24
600.0	3.56	3.44	0.12	27.24	0.36	600.0	1.18	1.17	1.25
650.0	3.58	3.47	0.11	26.43	0.32	650.0	1.18	1.17	1.25
700.0	3.60	3.50	0.10	25.47	0.35	700.0	1.18	1.16	1.25
750.0	3.62	3.53	0.10	24.36	0.38	750.0	1.17	1.16	1.24
800.0	3.64	3.56	0.08	23.25	0.40	800.0	1.16	1.16	1.24
850.0	3.66	3.59	0.07	22.13	0.39	850.0	1.16	1.15	1.24
900.0	3.68	3.62	0.06	21.16	0.31	900.0	1.16	1.15	1.23
925.0	3.71	3.64	0.06	20.88	0.08	925.0	1.16	1.15	1.23
950.0	3.71	3.65	0.06	20.46	0.20	950.0	1.16	1.15	1.22
975.0	3.74	3.68	0.06	19.96	0.02	975.0	1.16	1.16	1.22
1000.0	3.74	3.69	0.05	19.70	0.05	1000.0	1.16	1.16	1.22
1025.0	3.77	3.70	0.07	19.35	0.21	1025.0	1.17	1.16	1.22
1050.0	3.77	3.73	0.04	19.01	0.32	1050.0	1.17	1.16	1.22
1075.0	3.80	3.75	0.05	18.90	0.46	1075.0	1.18	1.17	1.22
1100.0	3.81	3.78	0.03	18.50	0.62	1100.0	1.18	1.17	1.22
1150.0	3.86	3.84	0.02	18.15	0.99	1150.0	1.20	1.18	1.23
1200.0	3.92	3.92	0.01	18.04	1.38	1200.0	1.23	1.18	1.23
1250.0	3.99	4.01	0.02	18.14	1.86	1250.0	1.26	1.19	1.25
1300.0	4.09	4.12	0.03	18.21	2.35	1300.0	1.30	1.20	1.26
1350.0	4.22	4.26	0.04	18.15	2.80	1350.0	1.35	1.20	1.28
1400.0	4.37	4.45	0.08	17.77	3.26	1400.0	1.42	1.21	1.31
1450.0	4.56	4.68	0.12	16.81	3.72	1450.0	1.51	1.21	1.34
1500.0	4.81	4.95	0.14	15.58	4.11	1500.0	1.62	1.21	1.37
1600.0	5.42	5.61	0.18	12.94	4.81	1600.0	1.89	1.20	1.44
1700.0	6.13	6.23	0.10	10.90	5.86	1700.0	2.21	1.16	1.48

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner

TCP-2-10-75X+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -40°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	3.39	3.17	0.22	22.93	1.72	5.0	1.06	1.34	1.24
10.0	3.30	3.15	0.16	26.38	1.06	10.0	1.03	1.23	1.17
25.0	3.26	3.13	0.13	30.14	0.35	25.0	1.02	1.16	1.11
50.0	3.26	3.14	0.12	31.29	0.20	50.0	1.05	1.14	1.09
75.0	3.27	3.15	0.12	31.42	0.18	75.0	1.05	1.13	1.08
100.0	3.28	3.15	0.13	31.47	0.20	100.0	1.03	1.13	1.10
150.0	3.29	3.16	0.13	31.59	0.22	150.0	1.06	1.12	1.12
200.0	3.30	3.17	0.13	31.64	0.30	200.0	1.06	1.13	1.11
250.0	3.31	3.19	0.12	31.66	0.36	250.0	1.08	1.14	1.15
300.0	3.32	3.21	0.11	31.39	0.41	300.0	1.11	1.15	1.17
350.0	3.33	3.22	0.11	30.95	0.51	350.0	1.13	1.17	1.19
400.0	3.34	3.24	0.10	30.50	0.59	400.0	1.16	1.18	1.21
425.0	3.35	3.25	0.10	29.91	0.68	425.0	1.17	1.19	1.22
450.0	3.35	3.27	0.08	29.77	0.71	450.0	1.18	1.19	1.23
475.0	3.37	3.27	0.10	29.12	0.76	475.0	1.19	1.20	1.25
500.0	3.36	3.30	0.06	29.14	0.84	500.0	1.20	1.20	1.25
525.0	3.37	3.29	0.08	28.26	0.83	525.0	1.20	1.20	1.25
550.0	3.38	3.31	0.07	28.23	0.96	550.0	1.21	1.20	1.26
575.0	3.39	3.32	0.07	27.43	0.92	575.0	1.21	1.20	1.27
600.0	3.39	3.34	0.05	27.09	1.12	600.0	1.22	1.21	1.28
650.0	3.41	3.36	0.05	26.02	1.25	650.0	1.22	1.21	1.27
700.0	3.43	3.39	0.04	24.87	1.30	700.0	1.22	1.20	1.28
750.0	3.44	3.42	0.02	23.59	1.41	750.0	1.22	1.20	1.27
800.0	3.45	3.44	0.01	22.42	1.45	800.0	1.21	1.19	1.24
850.0	3.46	3.46	0.00	21.19	1.58	850.0	1.20	1.18	1.24
900.0	3.47	3.50	0.03	20.21	1.71	900.0	1.18	1.17	1.22
925.0	3.49	3.51	0.02	19.94	2.06	925.0	1.17	1.17	1.21
950.0	3.49	3.53	0.04	19.51	2.02	950.0	1.16	1.16	1.20
975.0	3.51	3.54	0.02	19.03	2.27	975.0	1.15	1.16	1.19
1000.0	3.52	3.55	0.03	18.79	2.34	1000.0	1.14	1.15	1.18
1025.0	3.54	3.56	0.02	18.44	2.56	1025.0	1.13	1.15	1.17
1050.0	3.55	3.59	0.04	18.18	2.77	1050.0	1.13	1.14	1.16
1075.0	3.57	3.61	0.04	18.06	2.91	1075.0	1.12	1.14	1.16
1100.0	3.58	3.63	0.05	17.74	3.16	1100.0	1.12	1.14	1.16
1150.0	3.63	3.71	0.08	17.46	3.63	1150.0	1.11	1.14	1.17
1200.0	3.68	3.79	0.12	17.44	4.18	1200.0	1.12	1.15	1.20
1250.0	3.73	3.86	0.13	17.71	4.76	1250.0	1.14	1.15	1.25
1300.0	3.82	3.95	0.13	17.94	5.31	1300.0	1.21	1.16	1.27
1350.0	3.92	4.07	0.15	18.06	5.94	1350.0	1.32	1.18	1.35
1400.0	4.06	4.25	0.19	17.81	6.56	1400.0	1.44	1.21	1.42
1450.0	4.22	4.55	0.33	16.93	7.15	1450.0	1.56	1.23	1.49
1500.0	4.45	4.76	0.31	15.63	7.69	1500.0	1.76	1.25	1.60
1600.0	5.07	5.35	0.27	12.83	8.42	1600.0	2.13	1.27	1.64
1700.0	5.78	6.00	0.22	10.62	9.62	1700.0	2.37	1.23	1.60

¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner

TCP-2-10-75X+

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	3.46	3.18	0.28	25.24	0.47	5.0	1.04	1.28	1.20
10.0	3.44	3.18	0.26	26.14	0.26	10.0	1.03	1.25	1.18
25.0	3.45	3.20	0.25	26.33	0.07	25.0	1.02	1.24	1.18
50.0	3.47	3.22	0.25	26.20	0.03	50.0	1.03	1.24	1.20
75.0	3.49	3.24	0.25	26.19	0.01	75.0	1.05	1.24	1.20
100.0	3.50	3.25	0.25	26.32	0.03	100.0	1.06	1.24	1.19
150.0	3.52	3.27	0.25	26.50	0.02	150.0	1.07	1.23	1.18
200.0	3.53	3.30	0.23	26.82	0.08	200.0	1.11	1.22	1.20
250.0	3.55	3.33	0.22	27.21	0.16	250.0	1.13	1.21	1.20
300.0	3.56	3.36	0.20	27.38	0.23	300.0	1.14	1.20	1.20
350.0	3.58	3.39	0.19	27.56	0.28	350.0	1.16	1.19	1.21
400.0	3.59	3.42	0.17	27.69	0.34	400.0	1.16	1.17	1.21
425.0	3.61	3.43	0.18	27.48	0.32	425.0	1.16	1.17	1.21
450.0	3.61	3.45	0.16	27.64	0.36	450.0	1.16	1.16	1.21
475.0	3.63	3.46	0.17	27.41	0.37	475.0	1.16	1.16	1.22
500.0	3.63	3.49	0.14	27.57	0.36	500.0	1.16	1.16	1.22
525.0	3.65	3.50	0.15	27.28	0.43	525.0	1.16	1.15	1.22
550.0	3.66	3.52	0.14	27.39	0.37	550.0	1.15	1.15	1.22
575.0	3.67	3.53	0.14	27.09	0.46	575.0	1.15	1.15	1.22
600.0	3.68	3.56	0.12	26.91	0.37	600.0	1.15	1.14	1.22
650.0	3.70	3.59	0.11	26.46	0.34	650.0	1.14	1.14	1.22
700.0	3.73	3.62	0.11	25.79	0.38	700.0	1.14	1.14	1.23
750.0	3.75	3.66	0.09	24.89	0.41	750.0	1.14	1.14	1.23
800.0	3.77	3.70	0.07	23.92	0.44	800.0	1.14	1.14	1.23
850.0	3.80	3.74	0.06	22.88	0.45	850.0	1.14	1.14	1.23
900.0	3.83	3.78	0.05	21.94	0.40	900.0	1.15	1.14	1.24
925.0	3.85	3.80	0.04	21.69	0.17	925.0	1.15	1.14	1.24
950.0	3.86	3.83	0.03	21.29	0.32	950.0	1.16	1.15	1.24
975.0	3.89	3.85	0.03	20.73	0.08	975.0	1.16	1.15	1.24
1000.0	3.90	3.87	0.03	20.49	0.08	1000.0	1.17	1.16	1.24
1025.0	3.92	3.89	0.03	20.11	0.09	1025.0	1.18	1.16	1.25
1050.0	3.93	3.93	0.00	19.76	0.19	1050.0	1.19	1.16	1.25
1075.0	3.96	3.95	0.01	19.67	0.30	1075.0	1.20	1.17	1.25
1100.0	3.98	3.98	0.00	19.22	0.44	1100.0	1.21	1.17	1.25
1150.0	4.04	4.06	0.02	18.85	0.76	1150.0	1.24	1.18	1.25
1200.0	4.10	4.15	0.06	18.71	1.15	1200.0	1.26	1.19	1.25
1250.0	4.17	4.26	0.09	18.82	1.59	1250.0	1.29	1.19	1.25
1300.0	4.28	4.39	0.11	18.90	1.94	1300.0	1.31	1.19	1.25
1350.0	4.42	4.53	0.12	18.85	2.40	1350.0	1.34	1.19	1.25
1400.0	4.56	4.72	0.16	18.52	2.85	1400.0	1.38	1.18	1.26
1450.0	4.75	4.96	0.21	17.62	3.31	1450.0	1.44	1.17	1.28
1500.0	4.98	5.23	0.25	16.42	3.68	1500.0	1.51	1.16	1.30
1600.0	5.57	5.87	0.30	13.80	4.38	1600.0	1.74	1.14	1.39
1700.0	6.23	6.50	0.27	11.73	5.33	1700.0	2.11	1.12	1.48

¹Total Loss = Insertion Loss + 3dB Splitter Loss

