

2 Way-0° Power Splitter/Combiner

TCP-2-25X+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR		
	S-1	S-2				S	(:1) 1	2
10.0	3.54	3.54	0.00	0.01	8.14	2.00	1.51	1.51
100.0	3.57	3.57	0.00	0.10	15.36	1.97	1.50	1.51
200.0	3.59	3.60	0.01	0.16	17.18	1.96	1.56	1.56
250.0	3.59	3.61	0.02	0.19	17.70	1.96	1.57	1.58
300.0	3.59	3.62	0.03	0.19	18.14	1.96	1.59	1.60
400.0	3.60	3.64	0.04	0.23	18.94	1.95	1.62	1.63
450.0	3.61	3.65	0.04	0.24	19.32	1.95	1.63	1.64
500.0	3.61	3.66	0.05	0.26	19.70	1.95	1.64	1.65
550.0	3.62	3.67	0.05	0.25	20.10	1.95	1.66	1.67
600.0	3.62	3.68	0.06	0.28	20.52	1.95	1.67	1.68
650.0	3.62	3.69	0.07	0.31	20.96	1.94	1.68	1.69
700.0	3.62	3.70	0.08	0.27	21.44	1.94	1.69	1.71
750.0	3.63	3.71	0.08	0.32	21.96	1.94	1.71	1.72
800.0	3.62	3.72	0.10	0.30	22.49	1.93	1.72	1.73
850.0	3.62	3.72	0.10	0.32	23.08	1.92	1.74	1.75
900.0	3.62	3.73	0.11	0.36	23.72	1.92	1.75	1.76
950.0	3.63	3.74	0.11	0.35	24.37	1.92	1.76	1.77
1000.0	3.63	3.75	0.12	0.36	25.12	1.91	1.78	1.79
1050.0	3.63	3.76	0.13	0.38	25.89	1.91	1.79	1.80
1100.0	3.63	3.77	0.14	0.39	26.72	1.90	1.80	1.82
1150.0	3.63	3.78	0.15	0.44	27.69	1.89	1.82	1.83
1200.0	3.63	3.79	0.16	0.46	28.78	1.89	1.83	1.85
1250.0	3.63	3.79	0.16	0.48	30.01	1.88	1.84	1.86
1300.0	3.63	3.80	0.17	0.54	31.47	1.87	1.86	1.87
1400.0	3.64	3.82	0.18	0.56	35.48	1.85	1.88	1.90
1500.0	3.64	3.84	0.20	0.61	42.40	1.84	1.91	1.93
1600.0	3.64	3.86	0.22	0.65	43.12	1.82	1.93	1.96
1700.0	3.64	3.89	0.25	0.69	36.11	1.80	1.96	1.99
1800.0	3.64	3.91	0.27	0.78	31.95	1.79	1.98	2.03
1900.0	3.65	3.94	0.29	0.84	29.07	1.77	2.01	2.06
2000.0	3.66	3.97	0.31	0.86	26.83	1.75	2.03	2.09
2100.0	3.66	4.00	0.34	0.98	25.02	1.74	2.06	2.13
2200.0	3.67	4.04	0.37	1.14	23.56	1.73	2.08	2.16
2300.0	3.68	4.07	0.39	1.13	22.36	1.72	2.11	2.19
2400.0	3.69	4.10	0.41	1.24	21.24	1.71	2.13	2.24
2500.0	3.70	4.13	0.43	1.32	20.27	1.71	2.15	2.27
2600.0	3.72	4.18	0.46	1.40	19.37	1.70	2.17	2.31
2700.0	3.74	4.22	0.48	1.40	18.57	1.70	2.20	2.35
2800.0	3.76	4.26	0.50	1.62	17.83	1.71	2.22	2.38
2900.0	3.78	4.31	0.53	1.74	17.14	1.71	2.23	2.41
3000.0	3.79	4.36	0.57	1.83	16.54	1.71	2.25	2.44
3200.0	3.84	4.45	0.61	2.08	15.41	1.72	2.28	2.52
3400.0	3.89	4.56	0.67	2.32	14.36	1.72	2.31	2.58
3600.0	3.96	4.66	0.70	2.52	13.41	1.73	2.34	2.65
3800.0	4.03	4.76	0.73	2.57	12.54	1.75	2.37	2.73
4000.0	4.15	4.88	0.73	2.76	11.70	1.78	2.42	2.79
4200.0	4.26	5.00	0.74	2.83	10.95	1.83	2.47	2.86
4400.0	4.42	5.15	0.73	3.15	10.25	1.93	2.55	2.94
4600.0	4.59	5.34	0.75	3.63	9.63	2.05	2.64	3.02
4800.0	4.81	5.53	0.72	4.26	9.06	2.20	2.73	3.11
5000.0	5.05	5.74	0.68	4.89	8.54	2.40	2.84	3.21
5200.0	5.35	5.95	0.60	5.61	8.06	2.63	2.96	3.31
5400.0	5.71	6.18	0.46	6.41	7.58	2.91	3.10	3.38
5500.0	5.92	6.31	0.39	6.95	7.35	3.07	3.17	3.40

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss

2 Way-0° Power Splitter/Combiner

TCP-2-25X+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
10.0	3.54	3.54	0.00	0.02	6.62	2.00	1.76	1.76
100.0	3.55	3.56	0.01	0.11	15.77	1.97	1.57	1.57
200.0	3.55	3.57	0.02	0.32	18.41	1.97	1.65	1.66
250.0	3.55	3.58	0.03	0.43	19.19	1.97	1.67	1.68
300.0	3.55	3.59	0.04	0.56	19.81	1.97	1.69	1.69
400.0	3.55	3.60	0.05	0.74	20.91	1.96	1.72	1.72
450.0	3.54	3.60	0.06	0.85	21.41	1.96	1.73	1.73
500.0	3.54	3.61	0.07	0.97	21.87	1.96	1.74	1.75
550.0	3.54	3.61	0.07	1.10	22.33	1.96	1.75	1.76
600.0	3.54	3.62	0.08	1.22	22.81	1.96	1.77	1.77
650.0	3.54	3.62	0.08	1.32	23.32	1.95	1.78	1.78
700.0	3.53	3.63	0.10	1.46	23.90	1.95	1.78	1.79
750.0	3.53	3.64	0.11	1.56	24.53	1.95	1.80	1.80
800.0	3.53	3.65	0.12	1.69	25.17	1.94	1.81	1.81
850.0	3.52	3.65	0.13	1.80	25.90	1.94	1.83	1.82
900.0	3.51	3.65	0.14	1.91	26.75	1.94	1.84	1.84
950.0	3.52	3.66	0.14	2.03	27.65	1.94	1.85	1.85
1000.0	3.51	3.67	0.16	2.15	28.68	1.93	1.86	1.86
1050.0	3.51	3.67	0.16	2.26	29.83	1.93	1.88	1.88
1100.0	3.51	3.68	0.17	2.38	31.08	1.93	1.90	1.89
1150.0	3.51	3.68	0.17	2.48	32.70	1.92	1.91	1.91
1200.0	3.50	3.68	0.18	2.56	34.78	1.91	1.92	1.92
1250.0	3.50	3.69	0.19	2.68	37.33	1.91	1.94	1.93
1300.0	3.49	3.69	0.20	2.74	40.34	1.90	1.95	1.95
1400.0	3.49	3.71	0.22	3.00	41.29	1.89	1.98	1.98
1500.0	3.49	3.72	0.23	3.18	35.41	1.87	2.01	2.01
1600.0	3.47	3.73	0.26	3.35	31.41	1.86	2.03	2.04
1700.0	3.46	3.75	0.29	3.56	28.58	1.84	2.05	2.07
1800.0	3.47	3.77	0.30	3.72	26.60	1.83	2.08	2.10
1900.0	3.46	3.80	0.34	3.92	25.00	1.81	2.10	2.13
2000.0	3.45	3.82	0.37	4.08	23.61	1.79	2.11	2.17
2100.0	3.44	3.84	0.40	4.32	22.46	1.78	2.13	2.20
2200.0	3.44	3.88	0.44	4.42	21.39	1.76	2.15	2.23
2300.0	3.43	3.90	0.47	4.69	20.46	1.75	2.16	2.26
2400.0	3.43	3.91	0.48	4.99	19.54	1.73	2.18	2.29
2500.0	3.43	3.94	0.51	5.22	18.74	1.72	2.20	2.32
2600.0	3.44	3.97	0.53	5.45	18.02	1.72	2.22	2.35
2700.0	3.45	4.00	0.55	5.70	17.38	1.72	2.26	2.38
2800.0	3.47	4.04	0.57	5.81	16.71	1.72	2.29	2.41
2900.0	3.52	4.08	0.56	6.04	16.16	1.74	2.33	2.46
3000.0	3.53	4.12	0.59	6.00	15.56	1.75	2.37	2.52
3200.0	3.59	4.24	0.65	6.27	14.62	1.78	2.45	2.62
3400.0	3.66	4.33	0.67	6.34	13.59	1.81	2.50	2.67
3600.0	3.69	4.50	0.81	6.43	12.73	1.84	2.49	2.78
3800.0	3.74	4.59	0.85	6.97	11.87	1.86	2.49	2.81
4000.0	3.81	4.71	0.90	7.58	11.04	1.89	2.48	2.85
4200.0	3.88	4.78	0.90	8.49	10.32	1.91	2.50	2.91
4400.0	4.05	4.85	0.81	8.88	9.65	1.97	2.62	2.97
4600.0	4.27	5.06	0.79	8.92	9.21	2.11	2.84	3.12
4800.0	4.56	5.27	0.71	8.54	8.72	2.30	3.04	3.27
5000.0	4.93	5.61	0.68	7.44	8.24	2.59	3.25	3.40
5200.0	5.25	5.93	0.68	6.76	7.71	2.92	3.34	3.55
5400.0	5.53	6.26	0.73	6.94	7.11	3.22	3.30	3.56
5500.0	5.65	6.38	0.73	7.25	6.82	3.35	3.27	3.53

¹ Total Loss = Insertion Loss+ 3dB Splitter Loss



REV. X1
TCP-2-25X+
12/12/2011



2 Way-0° Power Splitter/Combiner

TCP-2-25X+

Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
10.0	3.54	3.53	0.01	0.00	8.21	1.99	1.42	1.42
100.0	3.59	3.59	0.00	0.13	14.08	1.97	1.40	1.40
200.0	3.61	3.61	0.00	0.24	15.19	1.96	1.43	1.44
250.0	3.61	3.63	0.02	0.30	15.58	1.95	1.46	1.46
300.0	3.62	3.64	0.02	0.32	15.92	1.95	1.47	1.48
400.0	3.64	3.67	0.03	0.40	16.60	1.95	1.50	1.52
450.0	3.65	3.68	0.03	0.43	16.94	1.94	1.52	1.53
500.0	3.65	3.70	0.05	0.47	17.28	1.94	1.54	1.55
550.0	3.66	3.71	0.05	0.48	17.63	1.94	1.55	1.57
600.0	3.66	3.72	0.06	0.54	17.99	1.93	1.57	1.58
650.0	3.67	3.74	0.07	0.55	18.37	1.93	1.58	1.60
700.0	3.67	3.75	0.08	0.56	18.76	1.93	1.60	1.61
750.0	3.68	3.76	0.08	0.63	19.18	1.92	1.61	1.63
800.0	3.68	3.77	0.09	0.64	19.61	1.91	1.63	1.64
850.0	3.68	3.78	0.10	0.66	20.06	1.91	1.64	1.66
900.0	3.69	3.80	0.11	0.71	20.52	1.90	1.66	1.67
950.0	3.69	3.81	0.12	0.75	20.97	1.90	1.67	1.69
1000.0	3.70	3.82	0.12	0.77	21.46	1.89	1.68	1.70
1050.0	3.70	3.83	0.13	0.82	21.97	1.89	1.70	1.72
1100.0	3.71	3.84	0.13	0.85	22.47	1.88	1.71	1.73
1150.0	3.72	3.86	0.14	0.90	23.05	1.87	1.72	1.74
1200.0	3.72	3.87	0.15	0.94	23.66	1.86	1.73	1.76
1250.0	3.72	3.87	0.15	0.98	24.32	1.85	1.74	1.77
1300.0	3.73	3.89	0.16	1.07	25.02	1.85	1.76	1.78
1400.0	3.74	3.91	0.17	1.11	26.69	1.83	1.78	1.81
1500.0	3.75	3.93	0.18	1.19	28.81	1.81	1.80	1.83
1600.0	3.75	3.96	0.21	1.30	31.50	1.79	1.82	1.86
1700.0	3.76	3.99	0.23	1.37	35.11	1.77	1.85	1.90
1800.0	3.78	4.02	0.24	1.50	38.87	1.76	1.88	1.94
1900.0	3.79	4.05	0.26	1.59	37.31	1.74	1.92	1.98
2000.0	3.81	4.09	0.28	1.73	33.01	1.72	1.95	2.02
2100.0	3.82	4.13	0.31	1.82	29.83	1.70	1.98	2.06
2200.0	3.84	4.17	0.33	2.04	27.37	1.69	2.02	2.11
2300.0	3.86	4.22	0.36	2.14	25.49	1.69	2.06	2.15
2400.0	3.88	4.25	0.37	2.29	23.91	1.69	2.09	2.20
2500.0	3.90	4.30	0.40	2.48	22.63	1.69	2.12	2.25
2600.0	3.93	4.34	0.41	2.60	21.47	1.69	2.15	2.29
2700.0	3.94	4.39	0.45	2.72	20.51	1.69	2.17	2.33
2800.0	3.96	4.43	0.48	2.97	19.62	1.70	2.18	2.35
2900.0	3.98	4.47	0.49	3.10	18.82	1.70	2.19	2.38
3000.0	3.99	4.51	0.52	3.28	18.04	1.70	2.20	2.40
3200.0	4.01	4.59	0.58	3.60	16.76	1.69	2.21	2.44
3400.0	4.04	4.66	0.62	3.88	15.49	1.67	2.22	2.50
3600.0	4.09	4.76	0.67	4.32	14.36	1.65	2.24	2.55
3800.0	4.15	4.87	0.72	4.50	13.36	1.66	2.27	2.62
4000.0	4.26	4.97	0.71	4.78	12.37	1.69	2.33	2.70
4200.0	4.39	5.09	0.70	4.76	11.57	1.76	2.40	2.82
4400.0	4.55	5.21	0.67	5.39	10.77	1.86	2.46	2.89
4600.0	4.65	5.41	0.75	5.89	10.13	1.97	2.51	2.94
4800.0	4.84	5.49	0.65	6.36	9.46	2.12	2.59	3.02
5000.0	5.03	5.66	0.62	6.99	8.89	2.30	2.68	3.14
5200.0	5.34	5.81	0.47	7.61	8.36	2.55	2.83	3.26
5400.0	5.71	6.02	0.31	8.55	7.90	2.89	3.05	3.37
5500.0	5.92	6.15	0.23	9.22	7.67	3.09	3.15	3.45

¹Total Loss = Insertion Loss+ 3dB Splitter Loss