3 Way-0° Power Splitter/Combiner SYPS-3-12W+

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 (:1)			
	S-1	S-2	S-3			1-2	1-3	2-3	S	1	2	3
10	5.36	5.36	5.34	0.02	0.05	33.33	33.21	33.56	1.21	1.20	1.20	1.20
20	5.30	5.31	5.29	0.02	0.04	33.70	33.60	33.90	1.15	1.18	1.18	1.18
30	5.27	5.27	5.26	0.01	0.05	33.05	33.09	33.32	1.13	1.18	1.17	1.18
40	5.25	5.26	5.24	0.02	0.02	32.40	32.54	32.73	1.12	1.17	1.17	1.17
50	5.24	5.25	5.23	0.02	0.01	31.77	32.05	32.19	1.12	1.17	1.16	1.17
100	5.24	5.25	5.23	0.02	0.05	28.95	29.72	29.75	1.13	1.15	1.15	1.16
150	5.27	5.28	5.27	0.01	0.05	26.71	27.77	27.73	1.15	1.14	1.14	1.15
200	5.32	5.32	5.31	0.01	0.11	24.90	26.15	26.08	1.18	1.13	1.14	1.15
250	5.37	5.36	5.36	0.01	0.12	23.46	24.80	24.73	1.22	1.12	1.13	1.14
300	5.42	5.41	5.41	0.01	0.16	22.28	23.69	23.61	1.25	1.11	1.12	1.14
350	5.48	5.46	5.47	0.02	0.19	21.31	22.79	22.72	1.29	1.10	1.12	1.13
400	5.54	5.51	5.53	0.03	0.20	20.53	22.05	22.00	1.32	1.09	1.11	1.13
450	5.60	5.56	5.59	0.04	0.24	19.87	21.46	21.43	1.35	1.08	1.10	1.13
500	5.66	5.61	5.65	0.05	0.28	19.36	20.96	20.96	1.37	1.07	1.09	1.12
550	5.72	5.66	5.71	0.06	0.31	18.95	20.61	20.63	1.39	1.06	1.09	1.12
600	5.78	5.70	5.76	0.08	0.38	18.64	20.37	20.43	1.40	1.06	1.08	1.11
650	5.82	5.73	5.81	0.09	0.47	18.45	20.23	20.35	1.41	1.07	1.08	1.11
700	5.87	5.76	5.85	0.11	0.57	18.36	20.21	20.38	1.42	1.08	1.07	1.10
750	5.91	5.78	5.89	0.13	0.71	18.37	20.31	20.57	1.41	1.09	1.07	1.10
800	5.95	5.79	5.91	0.16	0.85	18.51	20.57	20.94	1.39	1.10	1.07	1.09
850	5.99	5.79	5.93	0.20	1.10	18.79	21.01	21.52	1.37	1.12	1.08	1.08
900	6.01	5.80	5.95	0.21	1.30	19.21	21.67	22.38	1.33	1.13	1.08	1.07
950	6.04	5.79	5.97	0.25	1.58	19.82	22.68	23.70	1.27	1.14	1.08	1.06
1000	6.07	5.80	5.99	0.27	1.82	20.63	24.19	25.70	1.21	1.15	1.08	1.04
1050	6.13	5.81	6.02	0.32	2.15	21.61	26.44	28.82	1.14	1.16	1.09	1.02
1100	6.22	5.86	6.09	0.36	2.58	22.52	29.69	32.59	1.08	1.16	1.09	1.02
1150	6.35	5.95	6.20	0.40	3.09	22.68	31.92	30.33	1.14	1.15	1.10	1.05
1200	6.59	6.13	6.40	0.45	3.61	21.49	27.83	24.87	1.29	1.14	1.11	1.09
1250	6.94	6.43	6.71	0.51	4.36	19.33	23.26	20.85	1.50	1.11	1.13	1.14
1300	7.46	6.89	7.20	0.57	5.14	17.01	19.81	17.86	1.80	1.08	1.16	1.21
1350	8.19	7.56	7.89	0.63	6.07	14.99	17.24	15.58	2.19	1.04	1.20	1.27
1400	9.16	8.45	8.81	0.71	7.35	13.34	15.33	13.87	2.69	1.03	1.25	1.35

[1] Total Loss = Insertion Loss+ 4.8dB Splitter Loss

3 Way-0° Power Splitter/Combiner SYPS-3-12W+

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-3			1-2	1-3	2-3	S	1	2	3
10	5.11	5.11	5.08	0.03	0.05	30.60	30.56	30.85	1.36	1.27	1.27	1.27
20	5.19	5.19	5.17	0.02	0.02	35.60	35.51	36.01	1.18	1.17	1.17	1.17
30	5.19	5.19	5.18	0.01	0.03	35.42	35.67	36.00	1.15	1.15	1.14	1.15
40	5.18	5.18	5.18	0.00	0.05	34.60	35.06	35.25	1.14	1.13	1.13	1.14
50	5.17	5.17	5.16	0.01	0.09	33.72	34.39	34.53	1.13	1.12	1.12	1.13
100	5.17	5.17	5.16	0.01	0.20	29.89	31.12	31.07	1.14	1.11	1.11	1.11
150	5.19	5.18	5.18	0.01	0.25	27.13	28.54	28.44	1.17	1.11	1.11	1.11
200	5.22	5.21	5.21	0.01	0.38	25.12	26.64	26.52	1.21	1.09	1.10	1.12
250	5.26	5.24	5.25	0.02	0.47	23.62	25.20	25.07	1.25	1.09	1.10	1.12
300	5.30	5.28	5.29	0.02	0.56	22.44	24.06	23.93	1.28	1.08	1.10	1.11
350	5.35	5.32	5.34	0.03	0.65	21.45	23.14	23.02	1.32	1.08	1.10	1.11
400	5.40	5.36	5.39	0.04	0.74	20.63	22.38	22.27	1.35	1.08	1.10	1.12
450	5.45	5.41	5.45	0.04	0.82	19.94	21.74	21.65	1.39	1.07	1.10	1.12
500	5.50	5.44	5.49	0.06	0.88	19.43	21.25	21.17	1.41	1.08	1.09	1.12
550	5.56	5.49	5.55	0.07	0.94	19.02	20.90	20.85	1.43	1.08	1.09	1.12
600	5.61	5.52	5.58	0.09	1.02	18.70	20.66	20.64	1.44	1.08	1.09	1.12
650	5.65	5.54	5.63	0.11	1.07	18.49	20.51	20.54	1.45	1.09	1.09	1.11
700	5.68	5.56	5.66	0.12	1.10	18.38	20.47	20.55	1.46	1.10	1.09	1.11
750	5.72	5.57	5.69	0.15	1.13	18.37	20.57	20.73	1.44	1.12	1.09	1.10
800	5.74	5.58	5.71	0.16	1.10	18.50	20.85	21.10	1.43	1.13	1.09	1.10
850	5.77	5.57	5.71	0.20	1.09	18.78	21.31	21.70	1.40	1.14	1.09	1.09
900	5.78	5.56	5.72	0.22	1.08	19.16	22.01	22.58	1.35	1.15	1.10	1.08
950	5.80	5.55	5.71	0.25	1.01	19.74	23.05	23.88	1.30	1.16	1.10	1.07
1000	5.82	5.54	5.72	0.28	1.14	20.48	24.59	25.82	1.23	1.17	1.10	1.05
1050	5.86	5.54	5.74	0.32	1.26	21.33	26.89	28.68	1.15	1.18	1.11	1.03
1100	5.93	5.57	5.78	0.36	1.47	22.05	29.65	30.98	1.09	1.18	1.11	1.03
1150	6.04	5.64	5.88	0.40	1.70	22.02	30.16	28.32	1.14	1.17	1.11	1.05
1200	6.25	5.79	6.04	0.45	1.97	20.76	26.10	23.69	1.29	1.15	1.11	1.08
1250	6.57	6.07	6.33	0.50	2.29	18.65	22.03	20.00	1.52	1.13	1.13	1.13
1300	7.07	6.50	6.78	0.56	3.00	16.39	18.85	17.15	1.83	1.09	1.15	1.20
1350	7.78	7.15	7.45	0.63	3.77	14.39	16.40	14.94	2.27	1.05	1.18	1.27
1400	8.75	8.04	8.35	0.71	4.97	12.77	14.56	13.25	2.84	1.02	1.23	1.35

[1] Total Loss = Insertion Loss+ 4.8dB Splitter Loss

3 Way-0° Power Splitter/Combiner SYPS-3-12W+

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-3			1-2	1-3	2-3	S	1	2	3
10	5.40	5.40	5.39	0.01	0.00	32.65	32.07	32.45	1.18	1.25	1.25	1.25
20	5.32	5.32	5.31	0.01	0.03	31.92	31.31	31.69	1.14	1.24	1.23	1.24
30	5.29	5.30	5.28	0.02	0.03	31.25	30.78	31.10	1.12	1.23	1.23	1.23
40	5.28	5.29	5.27	0.02	0.05	30.73	30.34	30.63	1.11	1.23	1.22	1.23
50	5.28	5.29	5.27	0.02	0.03	30.25	29.99	30.23	1.11	1.23	1.22	1.22
100	5.30	5.31	5.30	0.01	0.08	28.08	28.37	28.48	1.12	1.21	1.20	1.21
150	5.34	5.35	5.34	0.01	0.07	26.20	26.85	26.90	1.14	1.19	1.19	1.20
200	5.39	5.39	5.39	0.00	0.13	24.60	25.51	25.51	1.17	1.18	1.18	1.19
250	5.45	5.44	5.45	0.01	0.16	23.25	24.30	24.28	1.20	1.16	1.17	1.18
300	5.51	5.50	5.51	0.01	0.20	22.11	23.26	23.25	1.23	1.15	1.16	1.17
350	5.57	5.55	5.57	0.02	0.25	21.17	22.41	22.40	1.26	1.13	1.14	1.16
400	5.63	5.61	5.63	0.02	0.25	20.40	21.72	21.72	1.29	1.11	1.13	1.16
450	5.71	5.67	5.70	0.03	0.27	19.77	21.16	21.18	1.32	1.10	1.12	1.15
500	5.76	5.72	5.76	0.04	0.37	19.29	20.69	20.74	1.34	1.08	1.11	1.14
550	5.83	5.78	5.84	0.06	0.42	18.91	20.37	20.45	1.36	1.07	1.10	1.13
600	5.90	5.82	5.89	0.08	0.51	18.62	20.14	20.27	1.38	1.06	1.09	1.12
650	5.96	5.86	5.95	0.10	0.60	18.45	20.01	20.20	1.39	1.06	1.08	1.12
700	6.01	5.90	6.00	0.11	0.72	18.37	20.00	20.25	1.39	1.06	1.07	1.11
750	6.06	5.92	6.05	0.14	0.87	18.39	20.11	20.45	1.38	1.07	1.07	1.10
800	6.11	5.95	6.08	0.16	1.02	18.54	20.36	20.81	1.37	1.09	1.07	1.09
850	6.15	5.96	6.10	0.19	1.25	18.84	20.78	21.39	1.34	1.10	1.07	1.08
900	6.18	5.97	6.13	0.21	1.47	19.27	21.42	22.26	1.31	1.12	1.07	1.07
950	6.22	5.97	6.16	0.25	1.73	19.92	22.40	23.57	1.25	1.13	1.07	1.05
1000	6.27	5.98	6.19	0.29	2.00	20.80	23.85	25.58	1.19	1.14	1.07	1.03
1050	6.33	6.01	6.24	0.32	2.31	21.86	26.12	28.90	1.12	1.15	1.07	1.01
1100	6.43	6.07	6.31	0.36	2.82	22.93	29.47	33.78	1.07	1.15	1.08	1.02
1150	6.58	6.18	6.44	0.40	3.30	23.27	33.40	32.10	1.14	1.14	1.09	1.06
1200	6.84	6.38	6.65	0.46	3.88	22.14	29.57	25.79	1.29	1.13	1.11	1.10
1250	7.20	6.70	6.99	0.50	4.62	19.92	24.41	21.48	1.50	1.10	1.14	1.15
1300	7.74	7.17	7.49	0.56	5.51	17.55	20.69	18.38	1.78	1.07	1.17	1.22
1350	8.48	7.85	8.20	0.63	6.42	15.47	17.97	16.06	2.14	1.04	1.22	1.28
1400	9.45	8.75	9.12	0.70	7.76	13.81	15.97	14.31	2.59	1.03	1.26	1.35

[1] Total Loss = Insertion Loss+ 4.8dB Splitter Loss