

# 3 Way-0° Power Splitter/Combiner

# AD3PS-1+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (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
1	5.33	5.33	5.32	0.01	0.01	40.16	39.34	39.68	1.15	1.22	1.22	1.22
2	5.22	5.21	5.21	0.01	0.02	40.94	40.42	40.54	1.09	1.17	1.16	1.16
3	5.16	5.15	5.15	0.01	0.02	41.60	41.14	41.13	1.07	1.14	1.14	1.14
4	5.13	5.13	5.12	0.01	0.01	42.08	41.67	41.57	1.06	1.13	1.13	1.13
5	5.11	5.11	5.11	0.01	0.02	42.38	42.07	41.91	1.05	1.12	1.12	1.12
6	5.11	5.11	5.10	0.00	0.03	42.56	42.35	42.09	1.04	1.12	1.12	1.11
7	5.10	5.11	5.10	0.01	0.04	42.79	42.52	42.19	1.04	1.12	1.11	1.11
8	5.10	5.11	5.10	0.01	0.03	42.97	42.73	42.31	1.04	1.12	1.11	1.11
9	5.11	5.11	5.11	0.01	0.05	43.11	42.95	42.46	1.04	1.11	1.11	1.11
10	5.12	5.12	5.12	0.01	0.08	43.24	43.14	42.59	1.03	1.11	1.11	1.11
11	5.12	5.13	5.13	0.01	0.12	43.40	43.25	42.60	1.03	1.11	1.11	1.11
12	5.12	5.14	5.13	0.01	0.13	43.28	43.37	42.65	1.03	1.11	1.11	1.10
13	5.12	5.13	5.13	0.01	0.14	43.25	43.40	42.63	1.03	1.11	1.10	1.10
14	5.12	5.13	5.12	0.01	0.13	43.21	43.38	42.55	1.03	1.11	1.10	1.10
15	5.11	5.12	5.12	0.01	0.12	43.15	43.35	42.45	1.03	1.11	1.10	1.10
20	5.12	5.12	5.12	0.01	0.15	42.87	43.29	42.06	1.03	1.11	1.10	1.10
25	5.12	5.13	5.12	0.01	0.16	42.33	43.09	41.51	1.03	1.11	1.10	1.10
30	5.13	5.13	5.13	0.01	0.20	41.75	42.71	40.79	1.04	1.11	1.10	1.10
35	5.14	5.14	5.13	0.01	0.22	41.06	42.30	40.11	1.04	1.10	1.10	1.10
40	5.15	5.15	5.14	0.01	0.24	40.31	41.71	39.33	1.04	1.10	1.10	1.10
45	5.16	5.16	5.15	0.01	0.29	39.65	41.15	38.62	1.04	1.10	1.10	1.09
50	5.16	5.16	5.15	0.01	0.30	38.94	40.55	37.92	1.04	1.10	1.10	1.09
75	5.21	5.20	5.18	0.02	0.51	36.05	37.96	35.02	1.05	1.10	1.09	1.09
100	5.24	5.23	5.21	0.04	0.65	33.97	36.13	32.97	1.06	1.09	1.09	1.09
125	5.29	5.25	5.23	0.06	0.81	32.14	34.37	31.17	1.07	1.09	1.09	1.09
150	5.33	5.29	5.25	0.08	0.94	30.85	33.19	29.87	1.08	1.09	1.09	1.08
175	5.38	5.31	5.27	0.11	1.07	29.79	32.26	28.82	1.08	1.09	1.08	1.08
200	5.43	5.34	5.29	0.14	1.16	28.92	31.49	27.96	1.10	1.09	1.08	1.08
225	5.49	5.38	5.32	0.17	1.20	28.14	30.86	27.22	1.11	1.09	1.08	1.08
250	5.55	5.42	5.34	0.21	1.22	27.38	30.22	26.56	1.13	1.10	1.08	1.08
275	5.62	5.47	5.37	0.25	1.24	26.70	29.66	25.99	1.16	1.11	1.08	1.08
300	5.71	5.52	5.41	0.30	1.20	25.94	28.93	25.38	1.20	1.12	1.09	1.09
325	5.81	5.59	5.46	0.35	1.26	25.02	27.92	24.66	1.26	1.13	1.10	1.09
350	5.94	5.67	5.52	0.42	1.44	23.92	26.62	23.77	1.33	1.15	1.11	1.11
375	6.10	5.79	5.60	0.49	1.63	22.64	25.08	22.70	1.42	1.17	1.12	1.12
400	6.30	5.94	5.73	0.56	1.83	21.20	23.38	21.43	1.54	1.20	1.14	1.14
425	6.55	6.15	5.90	0.65	2.08	19.68	21.62	20.04	1.70	1.23	1.16	1.16
450	6.88	6.43	6.14	0.74	2.84	18.14	19.89	18.58	1.90	1.26	1.19	1.18
475	7.31	6.80	6.47	0.84	3.83	16.66	18.26	17.14	2.17	1.30	1.22	1.21
500	7.85	7.29	6.90	0.94	5.08	15.28	16.77	15.77	2.51	1.34	1.25	1.24

<sup>1</sup>Total Loss = Insertion Loss + 4.8dB Splitter Loss



# 3 Way-0° Power Splitter/Combiner

# AD3PS-1+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (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
1	5.51	5.50	5.50	0.02	0.03	32.68	31.90	43.18	1.25	1.48	1.41	1.42
2	5.37	5.36	5.37	0.01	0.02	36.41	35.74	47.84	1.16	1.34	1.30	1.30
3	5.28	5.26	5.27	0.01	0.02	38.38	37.84	50.42	1.13	1.28	1.25	1.25
4	5.21	5.20	5.20	0.01	0.03	39.45	38.97	51.07	1.11	1.24	1.22	1.22
5	5.16	5.14	5.15	0.01	0.03	40.16	39.62	50.20	1.09	1.22	1.20	1.20
6	5.11	5.10	5.11	0.01	0.01	40.67	39.98	48.46	1.08	1.20	1.18	1.18
7	5.09	5.08	5.09	0.01	0.03	40.93	40.19	47.20	1.07	1.18	1.17	1.16
8	5.07	5.06	5.07	0.01	0.03	41.27	40.46	46.40	1.07	1.17	1.15	1.15
9	5.07	5.06	5.07	0.01	0.06	41.69	40.78	45.95	1.06	1.15	1.14	1.14
10	5.06	5.06	5.07	0.01	0.09	42.14	41.10	45.71	1.06	1.14	1.13	1.13
11	5.06	5.06	5.07	0.01	0.10	42.46	41.37	45.53	1.05	1.14	1.13	1.12
12	5.06	5.06	5.07	0.01	0.10	42.71	41.47	45.17	1.05	1.13	1.12	1.11
13	5.05	5.05	5.06	0.01	0.16	42.87	41.52	44.82	1.05	1.12	1.11	1.11
14	5.04	5.04	5.05	0.01	0.18	42.95	41.54	44.46	1.05	1.12	1.11	1.10
15	5.04	5.03	5.04	0.01	0.16	42.98	41.52	44.13	1.05	1.12	1.11	1.10
20	5.03	5.03	5.03	0.01	0.15	42.77	41.39	43.02	1.05	1.10	1.09	1.08
25	5.03	5.02	5.03	0.01	0.21	42.31	41.15	41.94	1.05	1.10	1.09	1.08
30	5.03	5.03	5.03	0.01	0.21	41.68	40.81	40.92	1.05	1.09	1.09	1.07
35	5.04	5.03	5.04	0.01	0.29	40.83	40.37	39.92	1.06	1.09	1.08	1.07
40	5.05	5.03	5.04	0.01	0.31	40.00	39.90	39.02	1.06	1.09	1.08	1.06
45	5.05	5.04	5.05	0.02	0.35	39.16	39.40	38.14	1.07	1.09	1.08	1.06
50	5.06	5.04	5.05	0.02	0.39	38.40	38.95	37.38	1.07	1.08	1.08	1.06
75	5.09	5.07	5.07	0.02	0.63	36.12	37.75	35.11	1.08	1.07	1.06	1.07
100	5.12	5.09	5.09	0.03	0.82	34.93	36.96	33.84	1.07	1.06	1.06	1.07
125	5.16	5.11	5.11	0.06	1.00	32.35	34.34	31.44	1.09	1.06	1.06	1.07
150	5.20	5.14	5.13	0.08	1.20	30.53	32.64	29.67	1.11	1.06	1.05	1.05
175	5.24	5.16	5.14	0.11	1.37	29.94	32.35	29.02	1.11	1.06	1.05	1.06
200	5.29	5.19	5.15	0.13	1.48	29.32	31.94	28.43	1.12	1.06	1.06	1.07
225	5.34	5.22	5.17	0.17	1.55	28.15	30.77	27.33	1.14	1.07	1.06	1.07
250	5.40	5.24	5.18	0.21	1.63	27.43	30.18	26.66	1.15	1.08	1.06	1.05
275	5.46	5.29	5.21	0.25	1.61	27.14	30.11	26.44	1.16	1.09	1.07	1.05
300	5.54	5.33	5.24	0.31	1.59	26.27	29.19	25.79	1.21	1.11	1.08	1.07
325	5.64	5.39	5.27	0.36	1.47	25.16	27.93	24.88	1.27	1.12	1.09	1.09
350	5.75	5.46	5.33	0.42	1.33	24.08	26.69	24.04	1.33	1.14	1.10	1.10
375	5.90	5.58	5.41	0.49	1.04	22.69	25.00	22.87	1.43	1.17	1.12	1.11
400	6.09	5.72	5.52	0.57	0.68	21.09	23.11	21.41	1.57	1.20	1.14	1.14
425	6.34	5.92	5.69	0.65	0.16	19.53	21.32	19.94	1.73	1.23	1.17	1.16
450	6.66	6.20	5.92	0.74	0.50	17.96	19.58	18.43	1.96	1.27	1.20	1.19
475	7.09	6.57	6.26	0.83	1.31	16.43	17.91	16.90	2.26	1.31	1.24	1.22
500	7.62	7.06	6.69	0.93	2.36	15.03	16.42	15.51	2.64	1.35	1.28	1.25

<sup>1</sup>Total Loss = Insertion Loss + 4.8dB Splitter Loss



# 3 Way-0° Power Splitter/Combiner

# AD3PS-1+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (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
1	5.47	5.45	5.46	0.01	0.03	46.63	44.72	46.83	1.17	1.30	1.29	1.29
2	5.32	5.31	5.32	0.01	0.02	47.12	45.35	45.10	1.11	1.22	1.22	1.21
3	5.26	5.25	5.26	0.01	0.01	47.34	45.54	44.23	1.08	1.19	1.18	1.18
4	5.24	5.22	5.24	0.01	0.02	47.55	45.62	43.88	1.06	1.17	1.17	1.16
5	5.22	5.22	5.23	0.01	0.02	47.76	45.74	43.78	1.06	1.16	1.16	1.16
6	5.22	5.21	5.22	0.01	0.03	47.78	45.83	43.77	1.05	1.16	1.15	1.15
7	5.21	5.21	5.22	0.01	0.03	47.78	45.88	43.74	1.05	1.15	1.14	1.14
8	5.22	5.21	5.22	0.01	0.04	47.82	46.00	43.75	1.05	1.15	1.14	1.14
9	5.22	5.22	5.23	0.02	0.05	47.84	46.16	43.78	1.04	1.15	1.14	1.14
10	5.23	5.23	5.25	0.02	0.10	47.76	46.29	43.79	1.04	1.14	1.14	1.14
11	5.23	5.24	5.26	0.02	0.13	47.48	46.31	43.76	1.04	1.14	1.13	1.14
12	5.24	5.24	5.26	0.02	0.11	47.34	46.28	43.66	1.04	1.14	1.13	1.14
13	5.24	5.24	5.26	0.02	0.13	47.05	46.16	43.49	1.04	1.14	1.13	1.14
14	5.24	5.23	5.25	0.02	0.14	46.70	45.97	43.30	1.04	1.14	1.13	1.13
15	5.24	5.23	5.25	0.02	0.14	46.37	45.79	43.14	1.04	1.14	1.13	1.13
20	5.24	5.24	5.25	0.02	0.14	45.26	45.58	42.63	1.04	1.14	1.13	1.13
25	5.25	5.24	5.26	0.02	0.18	44.22	45.03	41.94	1.05	1.13	1.12	1.13
30	5.25	5.25	5.27	0.02	0.20	43.22	44.55	41.35	1.05	1.13	1.12	1.13
35	5.26	5.26	5.28	0.02	0.27	42.38	44.08	40.73	1.04	1.13	1.12	1.14
40	5.27	5.27	5.29	0.02	0.32	41.84	43.78	40.23	1.04	1.13	1.12	1.14
45	5.28	5.27	5.30	0.03	0.37	41.38	43.45	39.74	1.04	1.13	1.12	1.14
50	5.29	5.28	5.30	0.02	0.41	40.92	43.14	39.24	1.03	1.13	1.12	1.14
75	5.33	5.32	5.33	0.02	0.65	37.59	39.89	35.97	1.02	1.13	1.12	1.13
100	5.38	5.35	5.36	0.03	0.86	34.04	36.05	32.64	1.05	1.14	1.13	1.11
125	5.42	5.38	5.38	0.04	1.07	32.14	34.23	30.86	1.05	1.13	1.12	1.11
150	5.47	5.41	5.41	0.06	1.28	31.50	33.92	30.16	1.05	1.13	1.12	1.12
175	5.51	5.44	5.43	0.08	1.50	30.29	32.78	28.97	1.07	1.13	1.12	1.12
200	5.57	5.48	5.45	0.11	1.76	29.02	31.48	27.77	1.08	1.12	1.11	1.10
225	5.63	5.51	5.48	0.15	1.97	28.41	31.07	27.18	1.09	1.12	1.10	1.09
250	5.69	5.56	5.50	0.19	2.21	27.86	30.72	26.70	1.12	1.12	1.09	1.10
275	5.77	5.61	5.55	0.22	2.50	27.00	29.91	25.98	1.16	1.13	1.09	1.11
300	5.86	5.67	5.58	0.27	2.78	26.18	29.17	25.34	1.20	1.13	1.09	1.10
325	5.97	5.74	5.63	0.33	3.09	25.44	28.47	24.81	1.24	1.14	1.09	1.10
350	6.10	5.84	5.71	0.40	3.38	24.38	27.29	24.05	1.32	1.15	1.10	1.11
375	6.26	5.96	5.80	0.46	3.70	23.06	25.72	22.99	1.41	1.17	1.12	1.13
400	6.46	6.12	5.92	0.54	4.05	21.69	24.11	21.84	1.52	1.20	1.13	1.14
425	6.72	6.33	6.10	0.62	4.47	20.21	22.36	20.53	1.66	1.22	1.15	1.15
450	7.06	6.61	6.34	0.71	5.16	18.65	20.57	19.09	1.86	1.26	1.18	1.18
475	7.48	6.99	6.67	0.81	6.28	17.15	18.90	17.64	2.10	1.29	1.21	1.20
500	8.02	7.47	7.10	0.92	7.57	15.74	17.37	16.27	2.40	1.33	1.24	1.22

<sup>1</sup>Total Loss = Insertion Loss + 4.8dB Splitter Loss

