

# 6 Way-0° Power Splitter/Combiner

# AD6PS-1+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)			VSWR (:1)		
	S-1	S-3	S-5			1-3	1-4	3-4	S	2	6
2	8.00	8.00	7.98	0.02	0.25	29.15	26.37	35.57	1.09	1.22	1.21
3	8.00	7.99	7.98	0.02	0.23	29.88	27.09	36.48	1.08	1.20	1.19
4	7.99	7.99	7.98	0.01	0.20	30.62	27.81	37.38	1.08	1.18	1.17
5	7.99	7.99	7.98	0.01	0.18	31.35	28.53	38.29	1.07	1.16	1.15
7	7.99	7.99	7.98	0.01	0.19	32.10	29.25	39.24	1.07	1.14	1.13
10	8.00	8.00	7.99	0.01	0.22	32.54	29.62	39.77	1.07	1.13	1.12
15	8.01	8.02	8.01	0.01	0.31	32.70	29.76	39.54	1.08	1.12	1.12
20	8.03	8.03	8.02	0.01	0.39	32.61	29.73	38.91	1.09	1.12	1.11
25	8.04	8.05	8.04	0.01	0.46	32.42	29.63	38.09	1.10	1.11	1.11
30	8.05	8.06	8.05	0.01	0.51	32.18	29.49	37.28	1.11	1.11	1.11
40	8.08	8.09	8.08	0.01	0.62	31.67	29.17	35.72	1.14	1.11	1.11
50	8.12	8.11	8.10	0.01	0.77	31.11	28.82	34.39	1.16	1.10	1.10
60	8.15	8.14	8.13	0.02	0.92	30.57	28.46	33.23	1.19	1.10	1.10
70	8.18	8.17	8.16	0.02	1.05	30.07	28.12	32.25	1.21	1.09	1.10
80	8.21	8.20	8.18	0.03	1.17	29.59	27.78	31.42	1.23	1.09	1.09
90	8.24	8.22	8.21	0.03	1.32	29.16	27.47	30.71	1.25	1.09	1.09
100	8.28	8.25	8.23	0.04	1.48	28.78	27.18	30.11	1.27	1.08	1.08
110	8.31	8.27	8.26	0.05	1.61	28.47	26.93	29.61	1.29	1.08	1.08
120	8.34	8.30	8.29	0.05	1.74	28.20	26.72	29.20	1.30	1.08	1.08
125	8.36	8.31	8.30	0.06	1.82	28.08	26.63	29.02	1.31	1.08	1.08
130	8.37	8.33	8.31	0.06	1.88	27.99	26.54	28.87	1.31	1.08	1.08
140	8.40	8.34	8.33	0.07	2.01	27.84	26.41	28.62	1.31	1.07	1.07
150	8.43	8.37	8.35	0.08	2.13	27.75	26.33	28.45	1.31	1.08	1.07
160	8.47	8.39	8.37	0.09	2.24	27.72	26.30	28.36	1.31	1.08	1.07
170	8.50	8.40	8.39	0.11	2.36	27.76	26.33	28.34	1.30	1.08	1.07
180	8.53	8.43	8.41	0.12	2.49	27.92	26.44	28.40	1.29	1.09	1.08
190	8.56	8.45	8.43	0.13	2.62	28.17	26.63	28.53	1.26	1.09	1.08
200	8.59	8.46	8.45	0.14	2.73	28.54	26.91	28.72	1.24	1.10	1.09
210	8.63	8.48	8.47	0.16	2.80	29.07	27.31	28.96	1.20	1.11	1.10
220	8.68	8.51	8.50	0.18	2.92	29.80	27.87	29.20	1.17	1.12	1.11
230	8.73	8.55	8.54	0.19	3.02	30.82	28.62	29.37	1.13	1.13	1.12
240	8.79	8.59	8.58	0.21	3.09	32.25	29.65	29.33	1.10	1.15	1.13
250	8.87	8.64	8.63	0.23	3.17	34.36	31.08	28.99	1.10	1.16	1.15
260	8.97	8.73	8.72	0.25	3.23	37.72	33.14	28.26	1.15	1.18	1.16
270	9.10	8.84	8.83	0.27	3.30	44.47	36.45	27.15	1.24	1.19	1.18
280	9.26	8.98	8.97	0.29	3.39	49.76	42.86	25.81	1.35	1.20	1.20
290	9.47	9.17	9.16	0.32	3.54	38.46	49.53	24.36	1.49	1.22	1.22
300	9.75	9.42	9.41	0.35	3.67	33.13	38.18	22.92	1.68	1.23	1.23

<sup>1</sup>Total Loss = Insertion Loss + 7.8dB Splitter Loss

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# 6 Way-0° Power Splitter/Combiner

# AD6PS-1+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)			VSWR (:1)		
	S-1	S-3	S-5			1-3	1-4	3-4	S	2	6
2	8.13	8.12	8.12	0.02	0.18	25.91	21.81	35.50	1.14	1.44	1.51
3	8.10	8.10	8.10	0.02	0.17	26.56	22.61	35.72	1.13	1.39	1.44
4	8.07	8.07	8.08	0.02	0.18	27.22	23.41	35.93	1.12	1.34	1.39
5	8.05	8.05	8.05	0.03	0.18	27.88	24.21	36.15	1.11	1.30	1.34
7	8.01	8.02	8.03	0.03	0.21	28.96	25.51	36.63	1.10	1.25	1.28
10	7.99	8.00	8.00	0.02	0.25	30.31	27.10	37.35	1.09	1.20	1.23
15	7.98	7.99	7.99	0.03	0.28	31.80	28.80	37.76	1.09	1.15	1.17
20	7.99	7.99	7.99	0.02	0.35	32.60	29.77	37.60	1.10	1.13	1.14
25	8.00	8.00	8.00	0.02	0.41	32.95	30.24	37.13	1.10	1.12	1.13
30	8.01	8.02	8.01	0.02	0.47	33.02	30.40	36.52	1.11	1.11	1.12
40	8.03	8.04	8.03	0.01	0.56	32.77	30.41	35.27	1.14	1.09	1.10
50	8.05	8.06	8.05	0.01	0.74	32.31	30.16	34.09	1.16	1.08	1.09
60	8.08	8.08	8.07	0.01	0.87	31.74	29.80	33.05	1.19	1.08	1.09
70	8.11	8.10	8.09	0.02	0.97	31.17	29.40	32.14	1.21	1.07	1.08
80	8.13	8.12	8.11	0.02	1.11	30.60	28.99	31.35	1.23	1.07	1.07
90	8.16	8.15	8.13	0.03	1.23	30.09	28.61	30.68	1.26	1.07	1.07
100	8.19	8.16	8.15	0.04	1.38	29.63	28.26	30.10	1.28	1.06	1.06
110	8.23	8.19	8.18	0.04	1.48	29.23	27.95	29.62	1.29	1.06	1.06
120	8.25	8.21	8.20	0.05	1.61	28.90	27.68	29.22	1.31	1.06	1.06
125	8.26	8.22	8.21	0.05	1.70	28.75	27.57	29.05	1.31	1.06	1.06
130	8.28	8.23	8.22	0.06	1.74	28.64	27.47	28.90	1.31	1.06	1.05
140	8.31	8.25	8.24	0.07	1.86	28.44	27.31	28.66	1.32	1.06	1.05
150	8.34	8.27	8.26	0.08	2.01	28.30	27.20	28.50	1.32	1.06	1.05
160	8.37	8.29	8.27	0.09	2.14	28.23	27.15	28.42	1.32	1.06	1.05
170	8.39	8.30	8.29	0.11	2.27	28.26	27.17	28.40	1.31	1.06	1.05
180	8.42	8.32	8.30	0.12	2.41	28.39	27.28	28.48	1.30	1.07	1.06
190	8.45	8.33	8.32	0.14	2.54	28.64	27.48	28.63	1.28	1.08	1.06
200	8.48	8.35	8.33	0.15	2.69	29.02	27.78	28.84	1.25	1.08	1.07
210	8.51	8.36	8.34	0.17	2.82	29.56	28.22	29.11	1.22	1.09	1.08
220	8.55	8.39	8.37	0.18	2.96	30.34	28.83	29.39	1.18	1.11	1.09
230	8.59	8.41	8.40	0.19	3.10	31.42	29.67	29.61	1.14	1.12	1.10
240	8.65	8.45	8.43	0.22	3.26	32.99	30.84	29.63	1.10	1.13	1.12
250	8.72	8.49	8.48	0.24	3.39	35.33	32.51	29.33	1.10	1.15	1.13
260	8.81	8.57	8.55	0.26	3.53	39.23	35.00	28.62	1.15	1.17	1.15
270	8.93	8.67	8.65	0.28	3.67	47.98	39.33	27.49	1.23	1.18	1.17
280	9.08	8.80	8.79	0.30	3.83	45.65	49.26	26.10	1.35	1.20	1.19
290	9.28	8.98	8.96	0.33	3.98	36.80	43.43	24.60	1.49	1.21	1.21
300	9.55	9.22	9.20	0.35	4.13	32.12	35.56	23.10	1.68	1.22	1.22

<sup>1</sup>Total Loss = Insertion Loss + 7.8dB Splitter Loss



# 6 Way-0° Power Splitter/Combiner

# AD6PS-1+

## Typical Performance Data

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

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)			AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)			VSWR (:1)		
	S-1	S-3	S-5			1-3	1-4	3-4	S	2	6
2	8.06	8.05	8.05	0.02	0.15	27.46	24.18	34.63	1.10	1.29	1.30
3	8.06	8.05	8.05	0.02	0.16	28.23	24.93	35.34	1.09	1.26	1.26
4	8.05	8.05	8.05	0.02	0.17	29.01	25.69	36.05	1.09	1.23	1.23
5	8.05	8.05	8.05	0.02	0.18	29.79	26.44	36.76	1.09	1.21	1.21
7	8.05	8.06	8.05	0.02	0.21	30.61	27.24	37.49	1.08	1.18	1.18
10	8.06	8.07	8.06	0.02	0.25	31.13	27.75	37.92	1.08	1.17	1.17
15	8.08	8.08	8.08	0.02	0.34	31.34	27.98	37.87	1.09	1.16	1.16
20	8.09	8.10	8.10	0.02	0.43	31.29	28.01	37.47	1.10	1.15	1.15
25	8.11	8.12	8.11	0.02	0.49	31.16	27.97	36.88	1.11	1.15	1.15
30	8.13	8.14	8.13	0.02	0.56	30.97	27.88	36.25	1.12	1.15	1.15
40	8.16	8.17	8.16	0.02	0.70	30.54	27.64	34.97	1.14	1.14	1.14
50	8.19	8.20	8.19	0.02	0.86	30.07	27.37	33.81	1.17	1.14	1.14
60	8.22	8.23	8.22	0.01	1.01	29.61	27.08	32.75	1.19	1.14	1.14
70	8.26	8.26	8.26	0.02	1.16	29.17	26.79	31.85	1.21	1.13	1.13
80	8.30	8.29	8.29	0.02	1.30	28.74	26.51	31.06	1.23	1.12	1.13
90	8.33	8.32	8.32	0.01	1.47	28.37	26.24	30.39	1.25	1.12	1.13
100	8.37	8.35	8.34	0.02	1.64	28.03	26.00	29.82	1.27	1.11	1.12
110	8.41	8.38	8.38	0.03	1.76	27.75	25.78	29.35	1.28	1.11	1.12
120	8.44	8.41	8.41	0.03	1.91	27.52	25.59	28.95	1.30	1.10	1.12
125	8.46	8.42	8.42	0.04	2.00	27.42	25.51	28.78	1.30	1.10	1.11
130	8.48	8.44	8.44	0.04	2.04	27.33	25.44	28.64	1.30	1.10	1.11
140	8.51	8.46	8.46	0.05	2.16	27.21	25.32	28.40	1.31	1.10	1.11
150	8.54	8.49	8.49	0.06	2.36	27.13	25.25	28.24	1.31	1.10	1.11
160	8.58	8.52	8.52	0.06	2.48	27.11	25.22	28.14	1.30	1.10	1.11
170	8.62	8.54	8.54	0.08	2.60	27.17	25.25	28.12	1.29	1.10	1.10
180	8.65	8.56	8.57	0.09	2.74	27.31	25.33	28.18	1.28	1.10	1.11
190	8.69	8.59	8.59	0.11	2.87	27.54	25.49	28.30	1.25	1.11	1.11
200	8.73	8.61	8.61	0.12	3.02	27.89	25.72	28.47	1.23	1.12	1.11
210	8.77	8.64	8.64	0.13	3.10	28.37	26.06	28.69	1.20	1.12	1.12
220	8.82	8.67	8.68	0.15	3.24	29.03	26.52	28.90	1.16	1.13	1.13
230	8.87	8.72	8.72	0.16	3.30	29.93	27.14	29.02	1.13	1.14	1.14
240	8.95	8.76	8.77	0.18	3.43	31.18	27.97	28.96	1.11	1.16	1.15
250	9.03	8.83	8.84	0.20	3.53	32.96	29.10	28.62	1.11	1.17	1.16
260	9.14	8.92	8.94	0.22	3.59	35.64	30.66	27.92	1.16	1.18	1.18
270	9.28	9.04	9.06	0.24	3.67	40.43	32.96	26.87	1.24	1.20	1.19
280	9.45	9.19	9.21	0.26	3.72	52.25	36.64	25.60	1.35	1.21	1.21
290	9.67	9.38	9.41	0.29	3.76	42.42	44.18	24.21	1.49	1.23	1.23
300	9.96	9.65	9.68	0.32	3.93	35.18	46.54	22.83	1.67	1.24	1.25

<sup>1</sup>Total Loss = Insertion Loss + 7.8dB Splitter Loss

