

4 Way-0° Power Splitter/Combiner

AD4PS-1+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @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	S-4			1-2	2-3	3-4	S	1	2	3	4
1	6.66	6.65	6.64	6.65	0.02	0.21	26.66	53.64	27.75	1.22	1.33	1.33	1.32	1.32
5	6.44	6.43	6.42	6.42	0.02	0.09	32.37	51.90	33.02	1.10	1.15	1.15	1.15	1.15
10	6.45	6.44	6.43	6.43	0.02	0.06	33.51	48.86	33.97	1.08	1.13	1.13	1.13	1.13
20	6.46	6.45	6.44	6.44	0.02	0.07	33.23	44.15	33.66	1.07	1.12	1.12	1.12	1.12
40	6.50	6.48	6.47	6.47	0.03	0.13	31.79	38.81	32.36	1.07	1.12	1.12	1.12	1.12
60	6.53	6.52	6.51	6.50	0.03	0.15	30.54	35.67	31.24	1.08	1.12	1.11	1.11	1.11
80	6.56	6.55	6.54	6.53	0.03	0.19	29.44	33.46	30.25	1.09	1.11	1.10	1.11	1.10
100	6.59	6.58	6.56	6.56	0.03	0.24	28.49	31.76	29.38	1.10	1.11	1.10	1.10	1.10
120	6.62	6.61	6.59	6.58	0.03	0.29	27.68	30.40	28.63	1.11	1.11	1.10	1.10	1.10
140	6.64	6.64	6.62	6.61	0.03	0.34	26.98	29.27	28.00	1.12	1.11	1.09	1.10	1.09
160	6.68	6.67	6.65	6.63	0.04	0.39	26.39	28.31	27.47	1.13	1.11	1.09	1.10	1.08
180	6.70	6.70	6.67	6.66	0.05	0.43	25.91	27.48	27.04	1.14	1.10	1.08	1.09	1.07
200	6.73	6.73	6.70	6.68	0.05	0.49	25.52	26.77	26.72	1.15	1.09	1.07	1.09	1.07
220	6.76	6.76	6.73	6.70	0.06	0.56	25.24	26.16	26.49	1.15	1.09	1.07	1.09	1.07
240	6.78	6.78	6.75	6.71	0.07	0.61	25.03	25.62	26.36	1.15	1.09	1.06	1.08	1.06
250	6.79	6.80	6.76	6.72	0.07	0.64	24.97	25.37	26.34	1.16	1.09	1.06	1.08	1.05
260	6.81	6.82	6.78	6.74	0.07	0.67	24.93	25.15	26.35	1.16	1.09	1.06	1.08	1.05
270	6.82	6.83	6.79	6.75	0.09	0.69	24.91	24.94	26.38	1.16	1.08	1.05	1.07	1.05
280	6.83	6.84	6.80	6.75	0.09	0.73	24.92	24.74	26.44	1.16	1.08	1.05	1.07	1.05
290	6.84	6.86	6.81	6.76	0.10	0.77	24.95	24.54	26.52	1.15	1.07	1.05	1.07	1.04
300	6.86	6.87	6.82	6.77	0.10	0.80	25.01	24.37	26.65	1.15	1.07	1.04	1.07	1.04
310	6.87	6.89	6.83	6.78	0.11	0.86	25.10	24.21	26.82	1.15	1.07	1.04	1.07	1.04
320	6.89	6.91	6.85	6.78	0.12	0.88	25.21	24.05	27.03	1.15	1.06	1.04	1.07	1.04
330	6.89	6.92	6.86	6.79	0.13	0.88	25.36	23.91	27.27	1.14	1.06	1.05	1.07	1.05
340	6.91	6.94	6.87	6.80	0.14	0.93	25.55	23.77	27.56	1.14	1.06	1.05	1.07	1.05
350	6.92	6.95	6.88	6.80	0.14	0.97	25.77	23.65	27.90	1.14	1.06	1.05	1.08	1.05
360	6.93	6.96	6.89	6.81	0.15	1.02	26.03	23.53	28.31	1.13	1.06	1.06	1.08	1.06
370	6.94	6.98	6.90	6.82	0.16	1.05	26.35	23.42	28.79	1.13	1.06	1.06	1.08	1.06
380	6.95	7.00	6.91	6.82	0.17	1.09	26.71	23.32	29.36	1.12	1.06	1.07	1.08	1.07
390	6.97	7.01	6.93	6.83	0.19	1.14	27.13	23.23	30.02	1.11	1.06	1.07	1.09	1.07
400	6.98	7.03	6.93	6.83	0.20	1.17	27.62	23.13	30.81	1.11	1.06	1.08	1.09	1.08
410	6.99	7.05	6.95	6.84	0.21	1.20	28.20	23.05	31.77	1.10	1.06	1.08	1.10	1.09
420	7.01	7.07	6.96	6.85	0.22	1.25	28.88	22.97	32.94	1.09	1.06	1.09	1.11	1.10
430	7.02	7.09	6.97	6.85	0.24	1.29	29.69	22.90	34.40	1.09	1.07	1.10	1.12	1.11
440	7.04	7.11	6.98	6.86	0.25	1.36	30.65	22.82	36.28	1.08	1.07	1.11	1.12	1.11
450	7.06	7.13	7.00	6.87	0.26	1.40	31.82	22.76	38.83	1.08	1.08	1.11	1.13	1.12
460	7.08	7.15	7.02	6.88	0.28	1.46	33.29	22.69	42.52	1.08	1.09	1.12	1.14	1.13
470	7.10	7.18	7.03	6.89	0.29	1.50	35.21	22.62	47.50	1.08	1.10	1.14	1.15	1.14
480	7.12	7.21	7.05	6.90	0.31	1.56	37.85	22.55	46.13	1.08	1.11	1.14	1.17	1.15
490	7.14	7.24	7.07	6.91	0.33	1.62	41.91	22.48	40.73	1.09	1.12	1.15	1.18	1.16
500	7.17	7.28	7.09	6.92	0.35	1.66	49.83	22.41	36.86	1.10	1.13	1.17	1.19	1.17
525	7.25	7.37	7.15	6.97	0.40	1.83	38.65	22.23	30.75	1.13	1.16	1.20	1.23	1.20
550	7.35	7.50	7.23	7.03	0.48	2.00	31.09	22.02	26.84	1.16	1.20	1.23	1.26	1.23
575	7.48	7.67	7.32	7.10	0.57	2.20	26.70	21.79	23.93	1.20	1.24	1.27	1.31	1.26
600	7.64	7.86	7.44	7.19	0.67	2.38	23.48	21.53	21.61	1.23	1.29	1.31	1.35	1.30
625	7.85	8.11	7.57	7.30	0.81	2.62	20.89	21.29	19.71	1.25	1.35	1.37	1.40	1.34
650	8.12	8.44	7.72	7.44	1.00	2.88	18.64	21.10	18.08	1.24	1.42	1.43	1.45	1.37
675	8.50	8.89	7.93	7.63	1.25	3.18	16.61	21.09	16.66	1.19	1.51	1.50	1.51	1.42
700	9.05	9.52	8.23	7.91	1.60	3.55	14.69	21.38	15.34	1.09	1.61	1.60	1.57	1.47

¹Total Loss = Insertion Loss + 6dB Splitter Loss

REV. X2
AD4PS-1+
100623
Page 1 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



4 Way-0° Power Splitter/Combiner

AD4PS-1+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @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	S-4			1-2	2-3	3-4	S	1	2	3	4
1	6.92	6.92	6.90	6.91	0.02	0.19	24.40	44.06	25.54	1.32	1.52	1.52	1.50	1.50
5	6.51	6.50	6.49	6.50	0.02	0.09	30.10	50.25	31.10	1.15	1.24	1.24	1.23	1.22
10	6.41	6.40	6.39	6.40	0.02	0.08	33.33	50.98	34.08	1.09	1.15	1.15	1.14	1.14
20	6.37	6.35	6.35	6.35	0.03	0.08	34.83	45.91	35.19	1.06	1.10	1.09	1.09	1.09
40	6.38	6.36	6.35	6.35	0.03	0.12	33.70	39.68	34.09	1.06	1.07	1.07	1.07	1.07
60	6.41	6.39	6.38	6.38	0.03	0.14	32.33	36.38	32.82	1.09	1.07	1.07	1.07	1.07
80	6.44	6.42	6.41	6.40	0.03	0.17	31.11	34.08	31.72	1.11	1.08	1.08	1.08	1.08
100	6.45	6.44	6.43	6.42	0.04	0.22	30.06	32.34	30.77	1.11	1.09	1.08	1.08	1.07
120	6.47	6.46	6.44	6.44	0.04	0.28	29.17	30.93	29.96	1.11	1.08	1.06	1.07	1.06
140	6.50	6.49	6.47	6.45	0.05	0.31	28.42	29.77	29.28	1.14	1.07	1.05	1.06	1.05
160	6.53	6.53	6.50	6.49	0.05	0.34	27.79	28.79	28.73	1.17	1.07	1.05	1.07	1.06
180	6.55	6.55	6.52	6.50	0.05	0.37	27.28	27.94	28.29	1.17	1.08	1.06	1.07	1.06
200	6.57	6.57	6.54	6.51	0.06	0.43	26.87	27.19	27.94	1.17	1.09	1.06	1.07	1.05
220	6.59	6.59	6.56	6.53	0.07	0.48	26.55	26.54	27.70	1.17	1.08	1.05	1.06	1.04
240	6.62	6.62	6.58	6.54	0.08	0.54	26.33	25.97	27.57	1.19	1.07	1.04	1.05	1.04
250	6.63	6.63	6.59	6.55	0.08	0.56	26.26	25.70	27.55	1.19	1.07	1.03	1.05	1.04
260	6.65	6.65	6.61	6.57	0.09	0.58	26.22	25.46	27.57	1.19	1.07	1.03	1.05	1.04
270	6.65	6.67	6.62	6.57	0.10	0.61	26.21	25.24	27.61	1.19	1.07	1.04	1.06	1.04
280	6.66	6.67	6.63	6.58	0.10	0.63	26.21	25.01	27.68	1.19	1.07	1.04	1.06	1.05
290	6.66	6.68	6.63	6.57	0.11	0.64	26.24	24.81	27.78	1.18	1.07	1.04	1.06	1.04
300	6.68	6.69	6.64	6.58	0.12	0.69	26.31	24.61	27.92	1.18	1.07	1.04	1.06	1.04
310	6.69	6.71	6.65	6.59	0.12	0.73	26.40	24.43	28.10	1.18	1.07	1.04	1.06	1.04
320	6.70	6.72	6.66	6.60	0.13	0.75	26.53	24.26	28.32	1.18	1.07	1.04	1.06	1.04
330	6.71	6.74	6.67	6.60	0.14	0.78	26.70	24.09	28.60	1.17	1.07	1.04	1.06	1.04
340	6.72	6.75	6.68	6.60	0.15	0.83	26.90	23.94	28.93	1.17	1.06	1.05	1.06	1.04
350	6.73	6.76	6.69	6.61	0.16	0.84	27.15	23.79	29.31	1.16	1.06	1.05	1.06	1.04
360	6.74	6.78	6.70	6.61	0.17	0.89	27.44	23.66	29.78	1.16	1.05	1.05	1.06	1.05
370	6.75	6.79	6.71	6.61	0.18	0.92	27.80	23.52	30.32	1.14	1.05	1.05	1.07	1.05
380	6.76	6.81	6.72	6.62	0.19	0.95	28.20	23.40	30.96	1.13	1.05	1.06	1.08	1.06
390	6.77	6.82	6.72	6.62	0.20	1.00	28.68	23.29	31.72	1.12	1.05	1.07	1.09	1.07
400	6.78	6.83	6.73	6.62	0.21	1.02	29.25	23.17	32.62	1.12	1.06	1.07	1.10	1.08
410	6.79	6.85	6.74	6.63	0.22	1.06	29.93	23.07	33.71	1.11	1.06	1.08	1.10	1.09
420	6.81	6.87	6.75	6.63	0.24	1.11	30.72	22.97	35.00	1.10	1.07	1.09	1.11	1.09
430	6.82	6.88	6.76	6.63	0.25	1.16	31.69	22.87	36.56	1.09	1.08	1.09	1.11	1.10
440	6.84	6.90	6.77	6.63	0.27	1.19	32.85	22.77	38.35	1.09	1.08	1.10	1.12	1.11
450	6.85	6.92	6.78	6.64	0.28	1.24	34.29	22.68	40.11	1.08	1.09	1.10	1.13	1.12
460	6.87	6.95	6.80	6.65	0.30	1.30	36.13	22.59	40.86	1.08	1.10	1.11	1.14	1.13
470	6.88	6.97	6.81	6.66	0.31	1.32	38.60	22.50	39.72	1.08	1.10	1.12	1.16	1.14
480	6.90	6.99	6.83	6.67	0.32	1.38	41.94	22.41	37.48	1.09	1.11	1.13	1.17	1.15
490	6.92	7.02	6.85	6.68	0.35	1.41	45.47	22.32	35.13	1.09	1.12	1.15	1.19	1.17
500	6.95	7.05	6.86	6.69	0.36	1.47	44.01	22.23	33.01	1.10	1.13	1.16	1.20	1.18
525	7.02	7.15	6.92	6.72	0.42	1.62	34.74	21.99	28.76	1.13	1.17	1.19	1.24	1.21
550	7.11	7.26	6.98	6.77	0.49	1.77	29.38	21.73	25.58	1.17	1.21	1.23	1.27	1.24
575	7.23	7.41	7.07	6.84	0.58	1.96	25.70	21.46	23.04	1.21	1.25	1.27	1.32	1.29
600	7.37	7.59	7.16	6.91	0.69	2.13	22.82	21.16	20.94	1.24	1.29	1.32	1.37	1.32
625	7.57	7.83	7.27	7.00	0.82	2.34	20.41	20.88	19.17	1.25	1.36	1.38	1.41	1.36
650	7.81	8.13	7.41	7.12	1.01	2.61	18.27	20.67	17.64	1.24	1.43	1.44	1.45	1.40
675	8.16	8.54	7.59	7.28	1.26	2.89	16.30	20.63	16.30	1.19	1.51	1.52	1.52	1.44
700	8.67	9.14	7.85	7.53	1.61	3.21	14.40	20.89	15.02	1.09	1.61	1.63	1.59	1.49

¹Total Loss = Insertion Loss + 6dB Splitter Loss

REV. X2
AD4PS-1+
100623
Page 2 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



4 Way-0° Power Splitter/Combiner

AD4PS-1+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @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	S-4			1-2	2-3	3-4	S	1	2	3	4
1	6.80	6.80	6.79	6.79	0.01	0.17	26.60	59.18	26.63	1.24	1.35	1.35	1.35	1.35
5	6.58	6.57	6.56	6.55	0.02	0.09	31.16	55.35	31.38	1.12	1.19	1.19	1.19	1.19
10	6.60	6.59	6.58	6.57	0.03	0.08	31.62	50.00	31.99	1.11	1.17	1.17	1.17	1.17
20	6.62	6.60	6.60	6.59	0.03	0.10	31.16	44.13	31.65	1.11	1.17	1.17	1.17	1.17
40	6.66	6.64	6.63	6.62	0.04	0.14	29.98	38.42	30.60	1.11	1.18	1.18	1.18	1.18
60	6.69	6.67	6.67	6.65	0.03	0.17	28.90	35.19	29.63	1.09	1.18	1.18	1.18	1.17
80	6.72	6.70	6.69	6.68	0.04	0.23	27.92	32.95	28.74	1.08	1.16	1.15	1.15	1.15
100	6.75	6.73	6.72	6.71	0.04	0.26	27.05	31.25	27.95	1.10	1.14	1.14	1.14	1.14
120	6.79	6.77	6.76	6.74	0.05	0.26	26.31	29.90	27.26	1.12	1.14	1.14	1.14	1.14
140	6.81	6.80	6.79	6.77	0.05	0.32	25.67	28.79	26.68	1.12	1.15	1.14	1.15	1.14
160	6.84	6.83	6.81	6.79	0.05	0.40	25.12	27.85	26.18	1.10	1.15	1.13	1.14	1.13
180	6.86	6.85	6.83	6.80	0.06	0.44	24.66	27.05	25.77	1.10	1.14	1.11	1.13	1.11
200	6.89	6.88	6.86	6.83	0.07	0.45	24.28	26.36	25.44	1.11	1.12	1.09	1.11	1.09
220	6.93	6.92	6.90	6.86	0.07	0.53	24.01	25.77	25.22	1.12	1.11	1.09	1.11	1.09
240	6.95	6.94	6.92	6.87	0.08	0.57	23.80	25.24	25.08	1.12	1.11	1.08	1.11	1.09
250	6.97	6.96	6.93	6.89	0.08	0.59	23.73	25.01	25.04	1.11	1.10	1.08	1.11	1.08
260	6.98	6.97	6.95	6.90	0.08	0.59	23.68	24.79	25.03	1.11	1.10	1.08	1.10	1.07
270	6.99	6.99	6.96	6.91	0.08	0.65	23.66	24.59	25.03	1.11	1.10	1.08	1.10	1.07
280	7.01	7.00	6.97	6.92	0.09	0.66	23.65	24.39	25.07	1.11	1.10	1.07	1.09	1.06
290	7.02	7.02	6.98	6.92	0.10	0.71	23.66	24.21	25.12	1.12	1.09	1.06	1.09	1.05
300	7.04	7.03	7.00	6.93	0.10	0.76	23.70	24.05	25.21	1.12	1.08	1.06	1.08	1.05
310	7.06	7.05	7.02	6.95	0.11	0.79	23.77	23.89	25.34	1.12	1.08	1.06	1.08	1.05
320	7.07	7.07	7.03	6.96	0.12	0.80	23.86	23.75	25.49	1.11	1.07	1.05	1.08	1.05
330	7.08	7.09	7.05	6.97	0.12	0.82	23.98	23.62	25.68	1.11	1.07	1.05	1.08	1.05
340	7.10	7.10	7.06	6.98	0.13	0.85	24.13	23.50	25.91	1.10	1.06	1.06	1.08	1.06
350	7.11	7.12	7.07	6.98	0.14	0.87	24.31	23.39	26.18	1.10	1.06	1.06	1.09	1.06
360	7.12	7.14	7.09	6.99	0.14	0.92	24.53	23.29	26.50	1.10	1.06	1.06	1.09	1.06
370	7.14	7.16	7.10	7.00	0.15	0.94	24.79	23.19	26.89	1.09	1.06	1.07	1.09	1.07
380	7.15	7.17	7.11	7.01	0.16	1.00	25.08	23.11	27.33	1.09	1.06	1.07	1.09	1.07
390	7.17	7.19	7.13	7.02	0.18	1.03	25.43	23.04	27.84	1.09	1.06	1.08	1.10	1.07
400	7.18	7.21	7.14	7.02	0.19	1.08	25.83	22.96	28.44	1.09	1.06	1.09	1.10	1.08
410	7.20	7.23	7.15	7.03	0.20	1.15	26.30	22.91	29.16	1.08	1.06	1.09	1.11	1.09
420	7.22	7.25	7.17	7.04	0.21	1.20	26.84	22.85	30.01	1.08	1.06	1.10	1.11	1.09
430	7.23	7.28	7.18	7.05	0.23	1.27	27.47	22.80	31.04	1.07	1.07	1.10	1.12	1.10
440	7.26	7.30	7.19	7.05	0.24	1.32	28.20	22.75	32.29	1.07	1.07	1.11	1.12	1.11
450	7.27	7.32	7.21	7.07	0.25	1.39	29.05	22.71	33.88	1.07	1.08	1.12	1.13	1.12
460	7.30	7.35	7.23	7.08	0.27	1.43	30.06	22.67	35.97	1.07	1.09	1.13	1.14	1.13
470	7.31	7.38	7.25	7.09	0.28	1.47	31.27	22.64	38.86	1.08	1.10	1.14	1.16	1.14
480	7.34	7.40	7.27	7.11	0.30	1.55	32.73	22.60	43.31	1.08	1.11	1.15	1.17	1.15
490	7.37	7.44	7.29	7.12	0.32	1.56	34.48	22.57	48.97	1.09	1.12	1.17	1.18	1.16
500	7.40	7.48	7.32	7.14	0.34	1.59	36.47	22.54	44.32	1.10	1.13	1.18	1.19	1.17
525	7.49	7.59	7.39	7.19	0.39	1.68	37.97	22.45	33.78	1.13	1.17	1.21	1.22	1.19
550	7.60	7.72	7.48	7.25	0.47	1.77	32.10	22.33	28.56	1.17	1.20	1.24	1.26	1.23
575	7.74	7.90	7.59	7.34	0.55	1.83	27.41	22.19	25.07	1.20	1.25	1.28	1.30	1.26
600	7.92	8.11	7.71	7.45	0.67	1.87	23.96	22.00	22.41	1.23	1.30	1.32	1.35	1.30
625	8.15	8.39	7.87	7.58	0.81	1.81	21.23	21.81	20.28	1.25	1.36	1.37	1.40	1.33
650	8.46	8.75	8.06	7.74	1.00	1.79	18.90	21.67	18.51	1.24	1.42	1.43	1.45	1.37
675	8.87	9.23	8.30	7.97	1.26	2.06	16.85	21.69	17.00	1.20	1.51	1.51	1.51	1.41
700	9.45	9.90	8.63	8.28	1.63	2.32	14.93	22.02	15.61	1.10	1.61	1.60	1.57	1.46

¹Total Loss = Insertion Loss + 6dB Splitter Loss

REV. X2
AD4PS-1+
100623
Page 3 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see [minicircuits.com](http://www.minicircuits.com)