

2 Way-0° Power Splitter/Combiner

EP2KA+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB) 1-2	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
10	3.55	3.54	0.01	3.62	0.01	10	1.98	1.96	1.96
100	3.54	3.53	0.00	3.68	0.02	100	1.94	1.92	1.93
1000	3.56	3.56	0.00	4.01	0.24	1000	1.89	1.83	1.84
2000	3.59	3.60	0.02	4.50	0.42	2000	1.97	1.78	1.79
3000	3.61	3.64	0.03	5.14	0.42	3000	2.03	1.63	1.66
4000	3.68	3.69	0.01	5.80	0.39	4000	2.02	1.44	1.45
5000	3.82	3.80	0.03	6.58	0.54	5000	2.07	1.32	1.32
6000	3.83	3.78	0.05	7.66	0.94	6000	2.03	1.22	1.20
7000	3.68	3.63	0.05	8.86	1.33	7000	1.85	1.13	1.11
8000	3.63	3.61	0.02	9.48	1.57	8000	1.79	1.14	1.13
9000	3.72	3.70	0.02	9.63	1.78	9000	1.91	1.15	1.12
10000	4.02	4.01	0.01	10.37	2.07	10000	2.23	1.39	1.34
11000	4.12	4.15	0.03	11.87	2.20	11000	2.27	1.47	1.42
12000	3.79	3.83	0.03	13.60	2.10	12000	1.87	1.30	1.29
13000	3.58	3.57	0.01	14.68	2.14	13000	1.59	1.12	1.18
14000	3.71	3.67	0.04	15.01	2.45	14000	1.66	1.18	1.27
15000	3.98	3.94	0.04	15.91	2.83	15000	1.92	1.43	1.46
16000	4.01	3.99	0.02	17.57	3.10	16000	1.97	1.54	1.53
17000	3.75	3.74	0.01	19.81	3.28	17000	1.64	1.41	1.39
18000	3.51	3.50	0.01	22.31	3.40	18000	1.32	1.21	1.20
19000	3.47	3.46	0.01	23.72	3.54	19000	1.25	1.13	1.11
20000	3.56	3.54	0.03	24.32	3.73	20000	1.34	1.26	1.20
21000	3.56	3.52	0.04	25.12	4.01	21000	1.34	1.32	1.26
22000	3.48	3.44	0.05	25.72	4.34	22000	1.18	1.25	1.21
23000	3.45	3.43	0.02	25.47	4.60	23000	1.07	1.15	1.16
24000	3.47	3.45	0.01	23.97	4.71	24000	1.08	1.10	1.15
25000	3.54	3.51	0.03	22.24	4.63	25000	1.17	1.14	1.20
26000	3.76	3.67	0.09	21.26	4.75	26000	1.40	1.26	1.30
27000	3.96	3.82	0.14	21.31	5.34	27000	1.53	1.33	1.31
28000	4.01	3.89	0.12	21.52	5.89	28000	1.51	1.28	1.28
29000	4.10	4.01	0.09	21.00	5.97	29000	1.59	1.29	1.38
30000	4.38	4.23	0.15	20.51	6.07	30000	1.85	1.50	1.50
31000	4.64	4.44	0.20	20.75	6.71	31000	1.99	1.67	1.56
32000	4.75	4.57	0.18	21.28	7.47	32000	1.86	1.63	1.53
33000	4.72	4.59	0.13	21.56	7.87	33000	1.74	1.48	1.49
34000	4.69	4.60	0.09	22.08	8.04	34000	1.75	1.43	1.49
35000	4.71	4.63	0.08	23.36	8.10	35000	1.74	1.46	1.48
36000	4.62	4.53	0.09	25.11	8.26	36000	1.61	1.45	1.40
37000	4.48	4.38	0.10	26.88	8.50	37000	1.41	1.41	1.31
38000	4.39	4.28	0.10	28.97	8.82	38000	1.19	1.34	1.26
39000	4.31	4.22	0.09	31.13	9.11	39000	1.06	1.26	1.22
40000	4.30	4.22	0.08	32.02	9.29	40000	1.21	1.21	1.19
41000	4.51	4.45	0.06	30.83	9.34	41000	1.31	1.22	1.24
42000	5.06	4.98	0.07	29.26	9.33	42000	1.56	1.39	1.42
43000	5.61	5.50	0.11	28.80	9.44	43000	1.92	1.60	1.60
43500	5.73	5.60	0.13	28.96	9.60	43500	2.03	1.66	1.62

¹Total Loss = Insertion Loss + 3dB Splitter Loss



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
 The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com



IF/RF MICROWAVE COMPONENTS

REV. A
 EP2KA+
 9/4/2018
 Page 1 of 3

2 Way-0° Power Splitter/Combiner

EP2KA+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -45°C

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB) 1-2	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
10	3.54	3.54	0.00	3.61	0.02	10	1.98	1.96	1.96
100	3.53	3.53	0.00	3.67	0.03	100	1.94	1.93	1.93
1000	3.55	3.57	0.01	3.98	0.27	1000	1.89	1.83	1.84
2000	3.58	3.61	0.03	4.47	0.42	2000	1.98	1.77	1.79
3000	3.60	3.63	0.04	5.13	0.44	3000	2.04	1.64	1.67
4000	3.64	3.66	0.02	5.82	0.48	4000	2.00	1.45	1.46
5000	3.77	3.76	0.01	6.58	0.60	5000	2.03	1.32	1.32
6000	3.78	3.74	0.04	7.63	0.99	6000	1.99	1.21	1.19
7000	3.65	3.62	0.03	8.75	1.43	7000	1.85	1.14	1.11
8000	3.61	3.60	0.00	9.34	1.64	8000	1.82	1.14	1.14
9000	3.68	3.68	0.00	9.55	1.81	9000	1.94	1.15	1.14
10000	3.97	3.97	0.00	10.36	2.15	10000	2.25	1.39	1.35
11000	4.05	4.09	0.04	11.90	2.32	11000	2.23	1.47	1.41
12000	3.72	3.78	0.06	13.55	2.19	12000	1.81	1.29	1.27
13000	3.54	3.56	0.02	14.34	2.18	13000	1.59	1.12	1.17
14000	3.72	3.71	0.01	14.55	2.50	14000	1.74	1.20	1.30
15000	3.99	3.98	0.02	15.64	2.87	15000	2.04	1.47	1.51
16000	3.95	3.95	0.00	17.69	3.15	16000	1.99	1.54	1.54
17000	3.66	3.67	0.02	20.22	3.32	17000	1.57	1.39	1.37
18000	3.45	3.47	0.02	22.21	3.44	18000	1.28	1.21	1.21
19000	3.44	3.46	0.02	22.62	3.58	19000	1.28	1.16	1.13
20000	3.56	3.56	0.00	22.95	3.74	20000	1.43	1.30	1.24
21000	3.52	3.51	0.01	23.93	4.00	21000	1.41	1.33	1.28
22000	3.38	3.38	0.00	25.13	4.29	22000	1.19	1.23	1.20
23000	3.36	3.37	0.01	25.97	4.49	23000	1.06	1.14	1.15
24000	3.37	3.39	0.02	24.92	4.59	24000	1.06	1.12	1.16
25000	3.42	3.43	0.01	22.81	4.54	25000	1.12	1.16	1.21
26000	3.62	3.57	0.05	21.23	4.56	26000	1.32	1.24	1.28
27000	3.85	3.74	0.11	20.80	5.09	27000	1.46	1.31	1.30
28000	3.97	3.86	0.11	20.67	5.72	28000	1.53	1.28	1.28
29000	4.09	4.00	0.08	20.46	5.88	29000	1.70	1.32	1.40
30000	4.30	4.17	0.13	20.66	6.09	30000	1.94	1.54	1.54
31000	4.45	4.28	0.17	21.36	6.81	31000	1.96	1.68	1.55
32000	4.53	4.40	0.13	21.57	7.58	32000	1.70	1.62	1.50
33000	4.63	4.58	0.05	20.86	7.85	33000	1.67	1.49	1.48
34000	4.74	4.73	0.01	20.79	7.85	34000	1.88	1.49	1.54
35000	4.77	4.77	0.00	22.05	7.83	35000	1.96	1.52	1.56
36000	4.54	4.52	0.02	24.62	7.87	36000	1.73	1.46	1.43
37000	4.33	4.28	0.05	28.02	8.07	37000	1.37	1.38	1.29
38000	4.32	4.26	0.06	30.62	8.37	38000	1.08	1.35	1.26
39000	4.31	4.24	0.07	31.17	8.61	39000	1.09	1.28	1.23
40000	4.29	4.21	0.08	30.22	8.83	40000	1.10	1.19	1.17
41000	4.49	4.40	0.09	28.53	9.13	41000	1.17	1.21	1.21
42000	5.09	5.01	0.08	27.29	9.41	42000	1.59	1.40	1.42
43000	5.65	5.57	0.08	27.48	9.61	43000	2.11	1.64	1.63
43500	5.73	5.64	0.09	28.15	9.72	43500	2.24	1.70	1.65

¹Total Loss = Insertion Loss + 3dB Splitter Loss



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. A
EP2KA+
9/4/2018
Page 2 of 3

2 Way-0° Power Splitter/Combiner

EP2KA+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB) 1-2	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
10	3.55	3.55	0.00	3.63	0.03	10	1.97	1.95	1.95
100	3.54	3.54	0.00	3.69	0.03	100	1.94	1.92	1.92
1000	3.58	3.58	0.00	4.02	0.26	1000	1.88	1.82	1.83
2000	3.60	3.63	0.02	4.50	0.41	2000	1.98	1.77	1.78
3000	3.63	3.66	0.03	5.16	0.46	3000	2.04	1.63	1.65
4000	3.69	3.71	0.02	5.84	0.46	4000	2.01	1.44	1.45
5000	3.84	3.82	0.02	6.63	0.60	5000	2.05	1.32	1.32
6000	3.86	3.81	0.05	7.70	0.99	6000	2.01	1.22	1.20
7000	3.73	3.69	0.04	8.85	1.40	7000	1.86	1.12	1.10
8000	3.68	3.66	0.02	9.47	1.63	8000	1.81	1.13	1.12
9000	3.77	3.75	0.02	9.69	1.85	9000	1.93	1.15	1.13
10000	4.06	4.06	0.00	10.50	2.15	10000	2.23	1.39	1.35
11000	4.14	4.17	0.03	12.03	2.31	11000	2.22	1.46	1.41
12000	3.84	3.87	0.04	13.69	2.24	12000	1.82	1.30	1.28
13000	3.66	3.67	0.00	14.60	2.26	13000	1.59	1.14	1.20
14000	3.81	3.78	0.03	15.01	2.56	14000	1.69	1.19	1.29
15000	4.03	4.00	0.03	16.05	2.95	15000	1.93	1.43	1.47
16000	4.00	3.99	0.02	17.93	3.23	16000	1.91	1.52	1.51
17000	3.75	3.75	0.00	20.37	3.40	17000	1.56	1.38	1.36
18000	3.58	3.58	0.00	22.46	3.54	18000	1.30	1.21	1.20
19000	3.57	3.56	0.01	23.36	3.70	19000	1.27	1.16	1.13
20000	3.65	3.63	0.02	24.06	3.91	20000	1.35	1.26	1.20
21000	3.62	3.58	0.03	25.22	4.18	21000	1.30	1.28	1.23
22000	3.54	3.51	0.03	26.22	4.51	22000	1.14	1.21	1.18
23000	3.54	3.52	0.01	26.06	4.75	23000	1.06	1.13	1.14
24000	3.56	3.56	0.00	24.29	4.87	24000	1.07	1.13	1.16
25000	3.64	3.62	0.02	22.34	4.85	25000	1.18	1.18	1.22
26000	3.88	3.81	0.07	21.35	4.97	26000	1.42	1.30	1.33
27000	4.07	3.96	0.11	21.35	5.45	27000	1.50	1.33	1.32
28000	4.11	4.02	0.09	21.38	5.90	28000	1.47	1.25	1.25
29000	4.26	4.17	0.08	20.88	5.93	29000	1.63	1.30	1.38
30000	4.56	4.42	0.15	20.73	6.04	30000	1.92	1.53	1.53
31000	4.78	4.56	0.22	21.30	6.70	31000	1.98	1.67	1.56
32000	4.85	4.64	0.21	21.82	7.56	32000	1.73	1.59	1.49
33000	4.86	4.71	0.15	21.66	8.11	33000	1.65	1.44	1.45
34000	4.90	4.80	0.09	21.85	8.33	34000	1.78	1.42	1.50
35000	4.90	4.84	0.07	23.20	8.37	35000	1.81	1.46	1.51
36000	4.73	4.65	0.07	25.58	8.47	36000	1.59	1.42	1.38
37000	4.55	4.46	0.09	28.42	8.65	37000	1.31	1.35	1.25
38000	4.50	4.41	0.09	30.84	8.97	38000	1.11	1.32	1.23
39000	4.46	4.38	0.08	32.14	9.28	39000	1.04	1.28	1.22
40000	4.45	4.39	0.06	31.66	9.47	40000	1.16	1.24	1.21
41000	4.71	4.67	0.03	29.94	9.51	41000	1.32	1.25	1.27
42000	5.29	5.25	0.04	28.63	9.40	42000	1.62	1.39	1.44
43000	5.80	5.71	0.08	28.52	9.45	43000	1.95	1.57	1.58
43500	5.88	5.77	0.10	29.10	9.61	43500	2.03	1.62	1.58

¹Total Loss = Insertion Loss + 3dB Splitter Loss



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
 The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com



IF/RF MICROWAVE COMPONENTS

REV. A
 EP2KA+
 9/4/2018
 Page 3 of 3