

# 2 Way-0° Power Splitter/Combiner

# EP2C+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER = -10 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-2				S	1	2
500.0	3.72	3.73	0.01	0.28	5.53	1.85	1.62	1.61
1000.0	3.69	3.70	0.02	0.55	8.11	1.76	1.45	1.45
1500.0	3.64	3.66	0.03	0.79	10.65	1.68	1.38	1.39
1800.0	3.62	3.65	0.03	0.94	12.01	1.65	1.36	1.37
2000.0	3.61	3.64	0.03	1.02	12.84	1.62	1.34	1.36
2500.0	3.57	3.60	0.03	1.24	14.61	1.54	1.28	1.30
3000.0	3.50	3.53	0.03	1.45	16.28	1.41	1.17	1.18
3500.0	3.46	3.48	0.02	1.67	18.44	1.25	1.03	1.03
3800.0	3.46	3.48	0.02	1.84	20.20	1.25	1.06	1.07
4000.0	3.48	3.50	0.02	1.92	21.64	1.23	1.12	1.14
4200.0	3.51	3.53	0.02	2.04	23.29	1.27	1.18	1.21
4400.0	3.55	3.57	0.02	2.13	25.25	1.32	1.24	1.27
4600.0	3.59	3.61	0.02	2.23	26.86	1.38	1.29	1.33
4800.0	3.64	3.66	0.02	2.32	27.62	1.43	1.33	1.38
5000.0	3.67	3.69	0.03	2.41	27.26	1.47	1.36	1.41
5200.0	3.70	3.72	0.02	2.50	25.96	1.49	1.39	1.43
5400.0	3.71	3.73	0.03	2.58	24.70	1.49	1.39	1.44
5600.0	3.71	3.74	0.02	2.64	23.63	1.47	1.39	1.43
5800.0	3.70	3.73	0.02	2.70	22.69	1.44	1.38	1.41
6000.0	3.69	3.71	0.02	2.76	22.01	1.39	1.36	1.37
6200.0	3.67	3.69	0.02	2.84	21.69	1.34	1.33	1.34
6400.0	3.66	3.67	0.01	2.87	21.61	1.28	1.31	1.30
6600.0	3.65	3.65	0.00	2.95	21.73	1.22	1.29	1.27
6800.0	3.64	3.64	0.00	3.02	21.97	1.17	1.27	1.25
7000.0	3.65	3.64	0.01	3.11	22.52	1.13	1.26	1.23
7200.0	3.66	3.64	0.02	3.17	23.07	1.10	1.26	1.22
7400.0	3.67	3.64	0.03	3.26	23.69	1.10	1.26	1.22
7600.0	3.69	3.65	0.04	3.40	24.26	1.10	1.26	1.21
7800.0	3.70	3.66	0.04	3.48	24.75	1.09	1.26	1.22
8000.0	3.72	3.67	0.05	3.53	25.25	1.10	1.27	1.22
8500.0	3.79	3.73	0.07	3.75	27.39	1.17	1.32	1.28
9000.0	3.91	3.82	0.09	3.88	34.16	1.31	1.44	1.38
9500.0	4.01	3.88	0.13	4.13	29.06	1.40	1.54	1.43
10000.0	4.03	3.87	0.16	4.38	21.94	1.32	1.52	1.39
10500.0	4.00	3.81	0.19	4.86	19.06	1.09	1.43	1.28
11000.0	4.05	3.85	0.20	5.47	19.27	1.17	1.44	1.27
11500.0	4.15	3.96	0.19	5.88	23.16	1.36	1.50	1.34
12000.0	4.18	4.03	0.16	6.24	26.94	1.38	1.41	1.33
12500.0	4.23	4.07	0.16	6.47	19.52	1.39	1.18	1.23
13000.0	4.36	4.17	0.19	6.80	15.74	1.51	1.11	1.07
13500.0	4.50	4.28	0.22	7.45	13.99	1.61	1.33	1.20
14000.0	4.60	4.40	0.19	8.58	12.13	1.66	1.57	1.53

<sup>(1)</sup> Total 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. OR  
 EP2C+  
 2/3/2015  
 Page 1 of 3

# 2 Way-0° Power Splitter/Combiner

# EP2C+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER = -10 dBm @Temperature = -45 °C

FREQ. (MHz)	TOTAL LOSS <sup>(1)</sup> (dB)		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
500.0	3.67	3.67	0.01	0.31	5.39	1.90	1.65	1.64
1000.0	3.61	3.62	0.01	0.60	8.01	1.80	1.49	1.49
1500.0	3.53	3.56	0.03	0.91	10.49	1.71	1.39	1.41
1800.0	3.49	3.53	0.04	1.11	11.90	1.67	1.36	1.39
2000.0	3.46	3.49	0.02	1.14	12.83	1.62	1.35	1.36
2500.0	3.41	3.43	0.02	1.50	14.74	1.53	1.27	1.30
3000.0	3.35	3.37	0.02	1.70	16.31	1.42	1.19	1.20
3500.0	3.29	3.31	0.02	2.00	18.14	1.28	1.05	1.05
3800.0	3.27	3.29	0.02	2.20	19.60	1.24	1.05	1.05
4000.0	3.28	3.30	0.02	2.29	20.82	1.24	1.10	1.11
4200.0	3.30	3.31	0.01	2.42	22.42	1.27	1.16	1.19
4400.0	3.33	3.35	0.02	2.55	24.35	1.33	1.23	1.27
4600.0	3.37	3.39	0.02	2.69	26.10	1.40	1.29	1.33
4800.0	3.42	3.44	0.02	2.78	26.90	1.48	1.34	1.40
5000.0	3.45	3.47	0.02	2.87	26.67	1.53	1.38	1.43
5200.0	3.48	3.50	0.02	2.99	25.44	1.56	1.40	1.46
5400.0	3.47	3.50	0.03	3.09	24.61	1.55	1.41	1.47
5600.0	3.49	3.51	0.03	3.15	22.83	1.57	1.42	1.47
5800.0	3.47	3.48	0.01	3.23	21.75	1.53	1.41	1.42
6000.0	3.43	3.45	0.02	3.34	21.21	1.45	1.37	1.40
6200.0	3.40	3.41	0.01	3.37	20.80	1.38	1.35	1.34
6400.0	3.38	3.38	0.00	3.48	20.80	1.29	1.32	1.30
6600.0	3.35	3.34	0.01	3.54	21.06	1.20	1.29	1.25
6800.0	3.34	3.32	0.02	3.70	21.67	1.13	1.27	1.22
7000.0	3.33	3.31	0.02	3.84	22.71	1.10	1.27	1.24
7200.0	3.35	3.31	0.04	3.91	23.83	1.13	1.30	1.24
7400.0	3.36	3.32	0.04	4.10	24.92	1.16	1.32	1.26
7600.0	3.38	3.33	0.05	4.20	25.30	1.18	1.32	1.26
7800.0	3.38	3.32	0.06	4.34	25.13	1.17	1.32	1.24
8000.0	3.39	3.32	0.07	4.46	24.50	1.12	1.30	1.23
8500.0	3.42	3.36	0.07	4.75	25.22	1.15	1.32	1.28
9000.0	3.53	3.45	0.08	4.97	32.58	1.34	1.46	1.41
9500.0	3.59	3.49	0.11	5.10	30.21	1.43	1.54	1.45
10000.0	3.61	3.46	0.15	5.24	22.73	1.36	1.53	1.40
10500.0	3.61	3.39	0.21	5.60	19.22	1.23	1.50	1.31
11000.0	3.61	3.35	0.26	6.31	17.76	1.07	1.44	1.22
11500.0	3.74	3.48	0.26	7.04	19.68	1.41	1.59	1.31
12000.0	3.83	3.63	0.20	7.57	32.62	1.65	1.63	1.46
12500.0	3.82	3.66	0.17	7.81	19.94	1.63	1.29	1.37
13000.0	3.97	3.79	0.17	8.10	14.26	1.82	1.12	1.05
13500.0	4.12	3.91	0.21	8.52	13.39	1.98	1.39	1.25
14000.0	3.97	3.76	0.21	9.38	13.30	1.61	1.48	1.50

<sup>(1)</sup> Total Loss = Insertion Loss + 3dB splitter loss.



# 2 Way-0° Power Splitter/Combiner

# EP2C+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER = -10 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-2				S	1	2
500.0	3.74	3.76	0.02	0.23	5.60	1.82	1.58	1.58
1000.0	3.73	3.74	0.02	0.46	8.23	1.73	1.43	1.43
1500.0	3.71	3.74	0.03	0.63	10.76	1.67	1.39	1.40
1800.0	3.71	3.74	0.03	0.74	12.02	1.66	1.38	1.39
2000.0	3.70	3.73	0.03	0.82	12.76	1.64	1.36	1.37
2500.0	3.65	3.68	0.03	1.02	14.42	1.54	1.27	1.29
3000.0	3.58	3.61	0.03	1.21	16.31	1.38	1.14	1.16
3500.0	3.56	3.58	0.02	1.38	18.91	1.23	1.00	1.03
3800.0	3.58	3.60	0.02	1.52	20.90	1.21	1.08	1.09
4000.0	3.60	3.62	0.02	1.59	22.50	1.23	1.13	1.16
4200.0	3.64	3.65	0.01	1.67	24.32	1.27	1.19	1.22
4400.0	3.68	3.70	0.01	1.77	26.39	1.31	1.25	1.28
4600.0	3.72	3.74	0.02	1.83	28.08	1.35	1.30	1.33
4800.0	3.76	3.78	0.01	1.89	28.76	1.38	1.34	1.37
5000.0	3.80	3.82	0.01	1.98	28.02	1.41	1.37	1.40
5200.0	3.83	3.84	0.01	2.05	26.53	1.42	1.39	1.41
5400.0	3.84	3.85	0.01	2.11	25.34	1.41	1.39	1.41
5600.0	3.85	3.86	0.01	2.17	24.16	1.40	1.39	1.41
5800.0	3.85	3.86	0.01	2.25	23.33	1.38	1.37	1.39
6000.0	3.85	3.86	0.01	2.31	22.59	1.36	1.35	1.36
6200.0	3.84	3.85	0.01	2.37	22.14	1.33	1.32	1.33
6400.0	3.84	3.85	0.00	2.41	21.83	1.29	1.30	1.30
6600.0	3.83	3.84	0.00	2.47	21.77	1.25	1.26	1.26
6800.0	3.83	3.83	0.00	2.51	21.76	1.20	1.24	1.23
7000.0	3.84	3.83	0.01	2.56	21.96	1.14	1.21	1.20
7200.0	3.85	3.83	0.01	2.59	22.34	1.08	1.20	1.18
7400.0	3.86	3.84	0.02	2.70	22.97	1.03	1.19	1.18
7600.0	3.89	3.85	0.03	2.74	23.73	1.03	1.19	1.18
7800.0	3.91	3.87	0.04	2.80	24.88	1.09	1.21	1.20
8000.0	3.94	3.90	0.05	2.85	26.18	1.13	1.23	1.22
8500.0	4.03	3.97	0.06	3.02	29.98	1.21	1.30	1.27
9000.0	4.14	4.04	0.10	3.10	32.23	1.25	1.40	1.33
9500.0	4.26	4.12	0.14	3.30	28.62	1.33	1.52	1.40
10000.0	4.31	4.13	0.19	3.64	22.28	1.30	1.53	1.40
10500.0	4.28	4.08	0.20	4.29	19.17	1.06	1.43	1.31
11000.0	4.36	4.17	0.19	4.80	19.86	1.25	1.46	1.33
11500.0	4.47	4.31	0.16	5.09	25.72	1.43	1.49	1.40
12000.0	4.47	4.32	0.15	5.24	24.27	1.33	1.30	1.29
12500.0	4.55	4.38	0.18	5.34	18.17	1.37	1.08	1.12
13000.0	4.65	4.43	0.22	5.70	16.47	1.39	1.14	1.05
13500.0	4.73	4.46	0.27	6.42	14.85	1.38	1.31	1.22
14000.0	4.95	4.70	0.25	7.82	11.49	1.63	1.57	1.50

<sup>(1)</sup> Total 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](http://www.minicircuits.com)



IF/RF MICROWAVE COMPONENTS

REV. OR  
 EP2C+  
 2/3/2015  
 Page 3 of 3