

2 Way-0° Power Splitter/Combiner

EP2RCW+

Typical Performance Data

TEST CONDITIONS: Input Power = -10dBm @Temperature = +25°C

FREQ. (MHz)	TOTAL LOSS ⁽¹⁾		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR (:1)		
	S-1	S-2				S	1	2
100	8.44	8.45	0.00	0.01	16.41	1.11	1.57	1.57
200	8.46	8.46	0.00	0.04	16.85	1.10	1.61	1.61
300	8.47	8.47	0.00	0.06	17.49	1.10	1.66	1.66
400	8.48	8.48	0.00	0.11	18.23	1.10	1.71	1.71
500	8.49	8.49	0.00	0.13	19.05	1.10	1.76	1.75
600	8.49	8.50	0.00	0.16	19.90	1.09	1.79	1.79
700	8.49	8.50	0.00	0.20	20.77	1.10	1.83	1.83
800	8.49	8.50	0.00	0.24	21.63	1.10	1.86	1.86
900	8.49	8.50	0.00	0.26	22.48	1.11	1.88	1.89
1000	8.49	8.49	0.01	0.30	23.27	1.13	1.91	1.92
1200	8.48	8.49	0.01	0.36	24.56	1.20	1.95	1.97
1400	8.47	8.49	0.02	0.40	25.27	1.29	1.99	2.02
1600	8.47	8.50	0.02	0.44	25.40	1.40	2.03	2.06
1800	8.48	8.51	0.03	0.48	25.22	1.52	2.06	2.10
2000	8.49	8.52	0.03	0.52	25.02	1.62	2.08	2.12
2200	8.48	8.51	0.03	0.55	24.93	1.70	2.08	2.13
2400	8.43	8.47	0.03	0.58	24.94	1.73	2.07	2.12
2600	8.36	8.39	0.03	0.59	24.91	1.72	2.04	2.09
2800	8.26	8.29	0.03	0.62	24.66	1.69	1.99	2.04
3000	8.15	8.17	0.03	0.65	24.05	1.65	1.95	1.99
3200	8.05	8.07	0.02	0.68	23.16	1.63	1.89	1.93
3400	7.98	7.99	0.01	0.70	22.22	1.65	1.84	1.87
3600	7.92	7.93	0.00	0.75	21.40	1.69	1.80	1.82
3800	7.87	7.87	0.00	0.80	20.87	1.73	1.75	1.76
4000	7.81	7.80	0.01	0.86	20.67	1.74	1.71	1.71
4200	7.72	7.71	0.01	0.91	20.84	1.70	1.67	1.66
4400	7.61	7.60	0.01	0.96	21.34	1.62	1.63	1.61
4600	7.50	7.48	0.02	1.00	22.07	1.53	1.60	1.57
4800	7.40	7.38	0.02	1.05	22.80	1.46	1.58	1.54
5000	7.34	7.32	0.03	1.12	23.16	1.46	1.57	1.51
5200	7.33	7.30	0.03	1.19	22.96	1.56	1.56	1.49
5400	7.35	7.32	0.03	1.30	22.40	1.69	1.56	1.47
5600	7.37	7.34	0.03	1.42	21.83	1.82	1.54	1.45
5800	7.37	7.35	0.03	1.55	21.48	1.88	1.52	1.42
6000	7.32	7.30	0.02	1.68	21.45	1.86	1.48	1.38
6200	7.23	7.22	0.01	1.79	21.72	1.75	1.42	1.33
6400	7.11	7.11	0.00	1.88	22.19	1.57	1.35	1.28
6600	7.00	7.01	0.01	1.92	22.66	1.37	1.27	1.23
6800	6.95	6.97	0.02	1.93	22.73	1.22	1.20	1.19
7000	6.96	6.98	0.02	1.94	22.31	1.20	1.15	1.15
7200	7.03	7.05	0.02	1.93	21.81	1.28	1.11	1.14
7400	7.12	7.13	0.01	1.93	21.62	1.33	1.10	1.13
7600	7.21	7.22	0.01	1.95	21.93	1.30	1.09	1.14
7800	7.32	7.32	0.01	1.98	22.48	1.22	1.07	1.14
8000	7.48	7.48	0.00	2.00	22.43	1.22	1.05	1.13
8200	7.75	7.75	0.00	2.02	21.20	1.40	1.05	1.11
8400	8.13	8.12	0.00	2.06	19.74	1.63	1.07	1.13
8600	8.52	8.51	0.01	2.11	18.98	1.76	1.10	1.17
8800	8.87	8.85	0.02	2.19	19.46	1.66	1.11	1.20
9000	9.32	9.29	0.03	2.30	21.36	1.32	1.07	1.17
9200	10.55	10.51	0.04	2.41	20.35	1.24	1.12	1.15
9400	13.42	13.37	0.04	2.54	16.06	1.92	1.31	1.35
9600	17.68	17.64	0.04	2.65	13.92	2.79	1.50	1.62
9800	22.46	22.43	0.03	2.72	13.17	3.77	1.65	1.84
10000	27.27	27.24	0.03	2.74	12.95	5.03	1.77	2.02

⁽¹⁾ Total Loss = Insertion Loss + 3dB Splitter Loss



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IF/RF MICROWAVE COMPONENTS

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2 Way-0° Power Splitter/Combiner

EP2RCW+

Typical Performance Data

TEST CONDITIONS: Input Power = -10dBm @Temperature = -55°C

FREQ. (MHz)	TOTAL LOSS ⁽¹⁾		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR		
	(dB) S-1	(dB) S-2				(:1) S	1	2
100	8.39	8.39	0.00	0.02	16.31	1.12	1.57	1.56
200	8.40	8.40	0.00	0.05	16.78	1.11	1.62	1.61
300	8.41	8.41	0.00	0.07	17.42	1.10	1.67	1.67
400	8.41	8.41	0.00	0.11	18.17	1.11	1.72	1.72
500	8.41	8.41	0.00	0.14	18.99	1.11	1.77	1.76
600	8.41	8.41	0.00	0.17	19.85	1.11	1.80	1.80
700	8.40	8.40	0.00	0.21	20.73	1.11	1.84	1.84
800	8.39	8.39	0.00	0.25	21.59	1.12	1.87	1.88
900	8.38	8.39	0.00	0.28	22.45	1.13	1.90	1.90
1000	8.37	8.38	0.01	0.32	23.25	1.15	1.92	1.93
1200	8.35	8.36	0.01	0.40	24.57	1.21	1.96	1.98
1400	8.33	8.35	0.02	0.45	25.33	1.30	2.00	2.03
1600	8.32	8.35	0.03	0.48	25.45	1.42	2.04	2.08
1800	8.32	8.36	0.03	0.49	25.24	1.54	2.07	2.11
2000	8.33	8.36	0.03	0.53	25.01	1.64	2.09	2.14
2200	8.31	8.35	0.04	0.54	24.85	1.73	2.10	2.15
2400	8.27	8.31	0.03	0.57	24.84	1.77	2.09	2.14
2600	8.20	8.23	0.03	0.60	24.84	1.76	2.06	2.11
2800	8.09	8.12	0.03	0.62	24.60	1.73	2.02	2.07
3000	7.98	8.00	0.02	0.64	24.07	1.69	1.97	2.01
3200	7.87	7.88	0.02	0.69	23.19	1.67	1.92	1.96
3400	7.78	7.79	0.01	0.72	22.22	1.68	1.87	1.90
3600	7.71	7.71	0.00	0.78	21.35	1.72	1.82	1.84
3800	7.65	7.65	0.00	0.83	20.76	1.77	1.77	1.78
4000	7.58	7.57	0.01	0.89	20.51	1.78	1.72	1.72
4200	7.49	7.47	0.02	0.94	20.61	1.75	1.68	1.67
4400	7.37	7.35	0.02	1.00	21.06	1.68	1.64	1.62
4600	7.24	7.22	0.02	1.04	21.77	1.58	1.61	1.57
4800	7.13	7.11	0.03	1.09	22.53	1.51	1.59	1.54
5000	7.06	7.03	0.03	1.17	22.96	1.51	1.58	1.52
5200	7.04	7.00	0.03	1.25	22.85	1.59	1.57	1.50
5400	7.04	7.01	0.03	1.35	22.37	1.72	1.57	1.49
5600	7.06	7.03	0.03	1.47	21.78	1.85	1.56	1.47
5800	7.06	7.03	0.03	1.60	21.39	1.92	1.55	1.45
6000	7.01	6.98	0.02	1.75	21.28	1.92	1.52	1.41
6200	6.91	6.90	0.01	1.87	21.45	1.83	1.46	1.37
6400	6.78	6.78	0.00	1.97	21.86	1.66	1.39	1.31
6600	6.65	6.66	0.01	2.02	22.36	1.46	1.31	1.26
6800	6.56	6.58	0.02	2.04	22.61	1.29	1.23	1.20
7000	6.54	6.55	0.02	2.05	22.35	1.23	1.16	1.16
7200	6.58	6.59	0.02	2.03	21.84	1.28	1.11	1.13
7400	6.65	6.66	0.01	2.02	21.51	1.35	1.09	1.12
7600	6.72	6.73	0.01	2.04	21.63	1.36	1.08	1.12
7800	6.80	6.81	0.01	2.07	22.18	1.29	1.06	1.12
8000	6.91	6.91	0.00	2.09	22.49	1.24	1.04	1.11
8200	7.11	7.11	0.00	2.12	21.61	1.35	1.03	1.09
8400	7.43	7.43	0.00	2.17	19.97	1.60	1.05	1.09
8600	7.80	7.80	0.01	2.22	18.80	1.82	1.08	1.13
8800	8.12	8.10	0.02	2.30	18.78	1.83	1.08	1.17
9000	8.39	8.36	0.03	2.41	20.53	1.52	1.05	1.17
9200	9.12	9.09	0.04	2.54	21.94	1.12	1.07	1.10
9400	11.36	11.32	0.04	2.68	16.98	1.80	1.24	1.25
9600	15.32	15.29	0.04	2.80	13.93	2.85	1.43	1.53
9800	20.07	20.05	0.02	2.85	12.86	3.98	1.60	1.78
10000	24.95	24.93	0.01	2.83	12.56	5.38	1.73	1.99

⁽¹⁾Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner

EP2RCW+

Typical Performance Data

TEST CONDITIONS: Input Power = -10dBm @Temperature = +105°C

FREQ. (MHz)	TOTAL LOSS ⁽¹⁾		AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION (dB)	VSWR		
	(dB) S-1	(dB) S-2				(:1) S	1	2
100	8.50	8.50	0.00	0.00	16.51	1.10	1.58	1.57
200	8.52	8.52	0.00	0.01	16.93	1.09	1.61	1.61
300	8.54	8.54	0.00	0.03	17.56	1.09	1.66	1.65
400	8.55	8.55	0.00	0.05	18.30	1.09	1.70	1.70
500	8.57	8.57	0.00	0.07	19.11	1.09	1.75	1.74
600	8.58	8.58	0.00	0.09	19.96	1.08	1.79	1.78
700	8.59	8.59	0.00	0.12	20.83	1.08	1.82	1.82
800	8.59	8.59	0.00	0.14	21.68	1.09	1.85	1.85
900	8.60	8.60	0.00	0.15	22.51	1.10	1.88	1.88
1000	8.60	8.60	0.00	0.18	23.29	1.12	1.90	1.91
1200	8.60	8.60	0.00	0.23	24.52	1.19	1.95	1.96
1400	8.61	8.62	0.01	0.27	25.18	1.29	2.00	2.01
1600	8.62	8.63	0.01	0.30	25.33	1.40	2.04	2.05
1800	8.64	8.65	0.01	0.35	25.24	1.52	2.07	2.09
2000	8.64	8.65	0.01	0.39	25.15	1.61	2.08	2.11
2200	8.62	8.64	0.02	0.43	25.15	1.67	2.08	2.11
2400	8.57	8.59	0.02	0.46	25.17	1.69	2.06	2.09
2600	8.50	8.51	0.02	0.48	25.05	1.67	2.03	2.06
2800	8.40	8.42	0.02	0.51	24.65	1.63	1.98	2.02
3000	8.31	8.32	0.01	0.54	23.90	1.60	1.93	1.96
3200	8.23	8.24	0.01	0.55	22.98	1.60	1.88	1.91
3400	8.17	8.17	0.01	0.56	22.09	1.64	1.82	1.85
3600	8.12	8.12	0.00	0.59	21.39	1.69	1.77	1.80
3800	8.07	8.06	0.00	0.61	20.98	1.72	1.72	1.74
4000	8.00	7.99	0.01	0.65	20.89	1.71	1.67	1.68
4200	7.91	7.90	0.01	0.68	21.14	1.65	1.62	1.63
4400	7.81	7.80	0.01	0.71	21.68	1.55	1.58	1.59
4600	7.71	7.69	0.01	0.74	22.37	1.45	1.55	1.55
4800	7.63	7.62	0.02	0.78	22.98	1.40	1.53	1.52
5000	7.59	7.58	0.02	0.82	23.19	1.43	1.51	1.49
5200	7.60	7.58	0.02	0.87	22.93	1.55	1.50	1.48
5400	7.63	7.60	0.03	0.94	22.44	1.69	1.49	1.45
5600	7.65	7.62	0.03	1.02	21.99	1.80	1.47	1.43
5800	7.64	7.62	0.03	1.11	21.75	1.84	1.45	1.39
6000	7.60	7.58	0.02	1.22	21.79	1.78	1.41	1.35
6200	7.52	7.50	0.02	1.30	22.07	1.65	1.37	1.31
6400	7.43	7.42	0.01	1.38	22.43	1.47	1.31	1.27
6600	7.35	7.35	0.00	1.43	22.71	1.30	1.26	1.23
6800	7.33	7.34	0.00	1.46	22.66	1.19	1.21	1.20
7000	7.37	7.38	0.01	1.49	22.33	1.20	1.17	1.17
7200	7.46	7.46	0.00	1.51	22.02	1.26	1.15	1.16
7400	7.56	7.57	0.00	1.53	21.99	1.27	1.14	1.16
7600	7.68	7.68	0.00	1.56	22.29	1.22	1.14	1.16
7800	7.83	7.83	0.00	1.60	22.53	1.18	1.13	1.16
8000	8.05	8.05	0.00	1.62	22.06	1.27	1.12	1.15
8200	8.38	8.38	0.00	1.64	20.84	1.46	1.12	1.15
8400	8.78	8.78	0.00	1.68	19.73	1.62	1.15	1.17
8600	9.20	9.20	0.01	1.72	19.37	1.65	1.17	1.21
8800	9.63	9.62	0.01	1.76	20.18	1.47	1.18	1.22
9000	10.35	10.34	0.02	1.84	21.46	1.17	1.15	1.18
9200	12.15	12.14	0.02	1.91	18.82	1.36	1.22	1.24
9400	15.60	15.58	0.01	1.99	15.47	2.01	1.43	1.46
9600	20.08	20.08	0.01	2.05	13.96	2.83	1.63	1.70
9800	24.84	24.84	0.01	2.11	13.42	3.79	1.78	1.88
10000	29.51	29.53	0.02	2.11	13.26	4.96	1.90	2.03

⁽¹⁾ Total Loss = Insertion Loss + 3dB Splitter Loss



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IF/RF MICROWAVE COMPONENTS

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