

# 4 Way-0° Power Splitter/Combiner Die

# WP4R-D+

## Typical Performance Data

TEST CONDITIONS: INPUT POWER = -10dBm @ Temperature = +25°C

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)				AMP. UNBAL. (dB)	ISOLATION (dB)			PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)				
	S-1	S-2	S-3	S-4		1-2	2-3	3-4			S	1	2	3	4
1500	10.52	10.82	10.78	10.49	0.32	16.84	14.86	16.39	3.82	1500	5.61	1.89	1.74	1.74	1.80
1600	9.56	9.84	9.79	9.53	0.31	18.10	15.83	17.60	3.27	1600	4.39	1.84	1.71	1.71	1.76
1700	8.76	9.01	8.96	8.73	0.28	19.73	17.04	19.13	2.68	1700	3.47	1.78	1.66	1.67	1.71
1800	8.11	8.33	8.29	8.08	0.26	21.86	18.53	21.09	2.14	1800	2.78	1.72	1.61	1.62	1.66
1900	7.60	7.81	7.77	7.57	0.23	24.67	20.36	23.62	1.66	1900	2.26	1.67	1.55	1.57	1.61
2000	7.23	7.41	7.37	7.20	0.21	28.59	22.51	26.99	1.25	2000	1.88	1.62	1.50	1.52	1.56
2050	7.08	7.25	7.22	7.05	0.20	31.26	23.72	29.10	1.05	2050	1.73	1.59	1.48	1.49	1.53
2100	6.96	7.12	7.08	6.93	0.19	34.57	24.99	31.44	0.88	2100	1.60	1.57	1.45	1.47	1.51
2150	6.87	7.02	6.98	6.83	0.19	37.86	26.22	33.72	0.64	2150	1.49	1.55	1.43	1.44	1.49
2200	6.79	6.93	6.89	6.76	0.18	37.91	27.37	34.68	0.46	2200	1.39	1.54	1.41	1.43	1.48
2250	6.73	6.86	6.82	6.69	0.17	34.86	28.15	33.63	0.33	2250	1.33	1.52	1.39	1.41	1.46
2300	6.69	6.81	6.77	6.65	0.16	32.12	28.55	31.65	0.32	2300	1.27	1.51	1.37	1.39	1.45
2320	6.68	6.80	6.75	6.64	0.15	31.17	28.48	30.88	0.35	2320	1.26	1.50	1.36	1.38	1.44
2340	6.67	6.78	6.73	6.63	0.15	30.34	28.34	30.13	0.44	2340	1.25	1.50	1.36	1.38	1.44
2360	6.66	6.77	6.72	6.62	0.15	29.63	28.20	29.44	0.53	2360	1.25	1.49	1.35	1.37	1.43
2400	6.64	6.75	6.70	6.60	0.14	28.26	27.73	28.16	0.67	2400	1.24	1.49	1.34	1.36	1.43
2420	6.64	6.74	6.69	6.60	0.14	27.61	27.37	27.57	0.76	2420	1.25	1.48	1.33	1.35	1.42
2440	6.64	6.74	6.68	6.60	0.14	27.12	27.02	27.01	0.82	2440	1.26	1.48	1.33	1.35	1.42
2460	6.64	6.73	6.68	6.60	0.13	26.66	26.72	26.51	0.89	2460	1.27	1.48	1.32	1.34	1.42
2500	6.64	6.73	6.67	6.60	0.13	25.79	26.05	25.65	1.03	2500	1.29	1.47	1.31	1.33	1.41
2520	6.65	6.73	6.68	6.61	0.12	25.38	25.66	25.24	1.09	2520	1.31	1.47	1.31	1.33	1.41
2540	6.66	6.73	6.68	6.61	0.11	25.01	25.32	24.88	1.16	2540	1.33	1.47	1.30	1.32	1.41
2560	6.66	6.73	6.68	6.62	0.11	24.68	24.99	24.51	1.22	2560	1.35	1.47	1.30	1.32	1.41
2580	6.67	6.73	6.68	6.63	0.10	24.35	24.67	24.19	1.31	2580	1.37	1.47	1.29	1.32	1.41
2600	6.67	6.74	6.68	6.63	0.11	24.01	24.37	23.87	1.37	2600	1.39	1.46	1.29	1.31	1.40
2620	6.69	6.74	6.69	6.65	0.10	23.75	24.02	23.57	1.44	2620	1.41	1.46	1.29	1.31	1.40
2640	6.69	6.75	6.69	6.65	0.09	23.50	23.74	23.30	1.52	2640	1.44	1.46	1.29	1.30	1.40
2660	6.71	6.76	6.70	6.67	0.09	23.26	23.44	23.03	1.58	2660	1.46	1.46	1.28	1.30	1.40
2680	6.72	6.77	6.71	6.68	0.08	23.00	23.17	22.78	1.63	2680	1.48	1.46	1.28	1.30	1.40
2700	6.73	6.77	6.72	6.70	0.07	22.79	22.90	22.57	1.71	2700	1.50	1.46	1.28	1.30	1.40
2750	6.77	6.80	6.74	6.73	0.07	22.25	22.28	22.01	1.87	2750	1.56	1.45	1.27	1.29	1.39
2800	6.81	6.82	6.77	6.77	0.05	21.78	21.70	21.54	2.08	2800	1.62	1.46	1.26	1.29	1.39
2850	6.85	6.85	6.80	6.81	0.05	21.33	21.19	21.11	2.23	2850	1.68	1.45	1.25	1.28	1.39
2900	6.90	6.88	6.83	6.86	0.06	20.94	20.70	20.73	2.37	2900	1.74	1.45	1.25	1.27	1.39
2950	6.94	6.91	6.86	6.90	0.07	20.61	20.29	20.39	2.53	2950	1.80	1.45	1.24	1.27	1.39
3000	6.99	6.95	6.90	6.95	0.08	20.29	19.84	20.08	2.70	3000	1.85	1.45	1.24	1.26	1.39
3100	7.08	7.01	6.98	7.04	0.10	19.71	19.12	19.54	3.01	3100	1.96	1.44	1.23	1.25	1.38
3200	7.18	7.09	7.05	7.14	0.13	19.20	18.46	19.09	3.31	3200	2.07	1.44	1.22	1.24	1.38
3300	7.27	7.16	7.13	7.23	0.15	18.77	17.90	18.68	3.64	3300	2.17	1.43	1.20	1.23	1.37
3400	7.37	7.24	7.21	7.32	0.16	18.38	17.35	18.32	3.93	3400	2.27	1.42	1.19	1.22	1.35
3500	7.46	7.32	7.29	7.41	0.17	18.02	16.84	18.01	4.24	3500	2.37	1.41	1.18	1.20	1.34
3600	7.55	7.39	7.36	7.49	0.18	17.69	16.38	17.72	4.51	3600	2.48	1.39	1.16	1.18	1.32
3800	7.72	7.57	7.52	7.65	0.20	17.10	15.54	17.19	5.06	3800	2.69	1.35	1.13	1.14	1.28
4000	7.88	7.73	7.68	7.81	0.19	16.60	14.82	16.71	5.59	4000	2.90	1.30	1.09	1.09	1.22
4200	8.04	7.91	7.84	7.97	0.20	16.20	14.14	16.27	6.09	4200	3.11	1.24	1.05	1.04	1.16
4400	8.17	8.05	7.99	8.12	0.18	15.79	13.57	15.82	6.54	4400	3.30	1.18	1.05	1.04	1.11
4600	8.30	8.21	8.16	8.27	0.15	15.30	13.01	15.36	7.07	4600	3.50	1.11	1.10	1.10	1.06
4800	8.42	8.35	8.30	8.39	0.13	14.78	12.51	14.85	7.50	4800	3.69	1.08	1.18	1.17	1.08
5000	8.51	8.48	8.43	8.49	0.08	14.24	12.09	14.31	8.00	5000	3.83	1.11	1.26	1.26	1.14
5200	8.59	8.58	8.56	8.58	0.02	13.64	11.74	13.75	8.40	5200	3.96	1.18	1.35	1.35	1.22
5400	8.66	8.72	8.68	8.66	0.06	13.04	11.46	13.16	8.84	5400	4.09	1.28	1.46	1.46	1.31
5600	8.76	8.89	8.83	8.76	0.13	12.42	11.19	12.54	9.30	5600	4.31	1.38	1.57	1.58	1.40
5800	8.84	9.03	8.89	8.79	0.24	11.84	10.96	11.92	9.73	5800	4.43	1.49	1.69	1.69	1.49
6000	8.91	9.15	8.97	8.82	0.33	11.28	10.80	11.34	10.13	6000	4.52	1.61	1.81	1.81	1.59

<sup>1</sup>Total Loss = Insertion Loss + 6dB Splitter Loss

Note: Test data of Die packaged in industry standard, 3x3 mm, 12-lead MCLP package



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  
 WP4R-D+  
 7/25/2019  
 Page 1 of 1