

4 Way-0° Power Splitter/Combiner Die

EP4KA-D+

Typical Performance Data ⁽²⁾

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

FREQ. (MHz)	TOTAL LOSS ⁽¹⁾				AMP. UNBAL. (dB)	PHASE UNBAL. (deg.)	ISOLATION			VSWR				
	(dB)						(dB)			(:1)				
	S-1	S-2	S-3	S-4			1-2	2-3	3-4	S	1	2	3	4
10700	6.52	6.57	6.31	6.31	0.27	4.83	19.58	11.80	19.40	1.24	1.48	1.47	1.43	1.57
10800	6.52	6.56	6.32	6.30	0.26	4.84	19.69	11.88	19.52	1.25	1.47	1.44	1.42	1.54
11000	6.52	6.53	6.36	6.32	0.21	4.91	19.81	12.03	19.67	1.24	1.42	1.41	1.40	1.51
11500	6.56	6.51	6.49	6.39	0.17	5.35	19.87	12.50	19.84	1.32	1.32	1.29	1.32	1.40
12000	6.62	6.58	6.54	6.43	0.19	5.91	19.82	13.24	19.79	1.38	1.24	1.24	1.27	1.29
12500	6.62	6.61	6.49	6.40	0.22	6.13	19.86	14.35	19.77	1.33	1.22	1.28	1.29	1.22
13000	6.68	6.57	6.45	6.40	0.27	6.17	20.29	15.52	20.08	1.30	1.32	1.39	1.39	1.27
13500	6.77	6.57	6.50	6.48	0.28	6.05	21.30	16.21	21.04	1.39	1.45	1.53	1.51	1.42
14000	6.78	6.61	6.50	6.49	0.29	5.91	22.67	16.38	22.40	1.37	1.53	1.58	1.55	1.51
14500	6.74	6.65	6.48	6.49	0.26	5.75	23.57	16.61	23.36	1.26	1.51	1.55	1.48	1.48
15000	6.75	6.67	6.56	6.57	0.19	5.89	23.33	17.29	23.22	1.28	1.41	1.46	1.40	1.43
15500	6.77	6.64	6.61	6.63	0.15	6.21	22.67	18.34	22.62	1.39	1.26	1.34	1.29	1.33
16000	6.70	6.56	6.56	6.58	0.14	6.63	22.51	19.23	22.50	1.39	1.10	1.17	1.16	1.16
16500	6.75	6.61	6.59	6.62	0.16	7.01	23.43	19.15	23.37	1.47	1.12	1.13	1.19	1.09
17000	7.01	6.83	6.81	6.84	0.20	7.27	25.45	18.65	25.34	1.66	1.33	1.34	1.35	1.27
17500	7.16	6.94	6.93	6.97	0.24	7.26	28.37	18.52	28.24	1.66	1.47	1.49	1.46	1.42
18000	7.02	6.85	6.81	6.85	0.21	7.32	31.00	18.97	31.00	1.44	1.48	1.54	1.46	1.46
18500	6.84	6.70	6.66	6.67	0.19	7.49	30.76	19.89	30.74	1.25	1.41	1.51	1.41	1.42
19000	6.79	6.64	6.64	6.64	0.15	7.63	29.33	20.80	29.26	1.28	1.33	1.41	1.32	1.33
19500	6.79	6.67	6.67	6.67	0.12	7.86	29.14	20.94	29.03	1.28	1.19	1.26	1.17	1.18
20000	6.88	6.80	6.76	6.76	0.11	8.11	30.87	20.42	30.69	1.34	1.01	1.07	1.01	1.02
20500	7.06	6.96	6.93	6.95	0.13	8.35	34.62	20.10	34.57	1.53	1.17	1.16	1.16	1.18
21000	7.14	6.95	7.00	7.03	0.19	8.56	42.83	20.26	43.16	1.58	1.34	1.33	1.28	1.34
21500	7.07	6.82	6.92	6.95	0.25	8.80	44.81	20.90	45.27	1.41	1.45	1.43	1.35	1.44
22000	6.99	6.79	6.84	6.88	0.20	9.34	37.59	21.78	37.55	1.20	1.49	1.48	1.38	1.48
22500	6.99	6.84	6.84	6.88	0.14	9.49	35.32	22.54	35.10	1.20	1.50	1.49	1.40	1.51
23000	7.01	6.87	6.87	6.92	0.14	9.49	34.92	22.79	34.81	1.27	1.49	1.42	1.39	1.50
23500	6.96	6.83	6.87	6.90	0.13	9.85	35.66	22.56	35.66	1.21	1.39	1.34	1.30	1.42
24000	6.86	6.79	6.86	6.85	0.08	10.25	37.41	22.11	37.58	1.07	1.24	1.21	1.20	1.31
24500	6.84	6.81	6.90	6.85	0.09	10.56	38.06	21.73	38.40	1.10	1.15	1.14	1.12	1.21
25000	6.85	6.83	6.96	6.87	0.13	10.75	36.20	21.56	36.23	1.20	1.09	1.11	1.11	1.13
25500	6.89	6.85	7.01	6.88	0.16	11.05	33.97	21.77	33.87	1.20	1.08	1.12	1.13	1.06
26000	6.91	6.87	7.02	6.87	0.16	11.26	32.73	22.01	32.81	1.10	1.12	1.15	1.16	1.04
26500	6.95	6.89	7.02	6.89	0.14	11.31	33.03	21.96	33.11	1.06	1.17	1.20	1.18	1.11
27000	6.98	6.89	7.03	6.93	0.15	11.42	35.24	21.21	35.50	1.16	1.18	1.20	1.18	1.18
27500	6.97	6.87	7.04	6.94	0.17	11.59	39.47	20.22	39.99	1.21	1.14	1.12	1.11	1.17
28000	7.08	7.00	7.19	7.09	0.19	11.91	38.49	19.42	38.75	1.38	1.19	1.11	1.09	1.14
28500	7.36	7.32	7.51	7.38	0.20	12.55	33.08	19.22	33.13	1.64	1.31	1.26	1.20	1.20
29000	7.59	7.59	7.77	7.57	0.20	12.92	30.40	19.55	30.52	1.73	1.43	1.43	1.35	1.32
29500	7.57	7.55	7.72	7.50	0.22	13.33	29.12	20.21	29.13	1.55	1.55	1.60	1.48	1.42
30000	7.44	7.33	7.51	7.33	0.18	13.48	28.71	20.79	28.79	1.28	1.61	1.71	1.58	1.49
30500	7.44	7.22	7.42	7.28	0.23	13.30	28.85	20.90	28.76	1.26	1.71	1.79	1.66	1.57
31000	7.46	7.23	7.40	7.32	0.24	13.27	28.28	20.59	28.28	1.32	1.65	1.73	1.62	1.57
31500	7.46	7.22	7.42	7.33	0.24	13.14	26.31	20.67	26.35	1.21	1.52	1.59	1.52	1.49
32000	7.50	7.22	7.58	7.40	0.36	13.32	24.14	21.52	24.27	1.18	1.38	1.41	1.38	1.37

⁽¹⁾ Total Loss = Insertion Loss + 6dB Splitter Loss

⁽²⁾ Testdata of Die packaged in 5x5 mm, 32-lead MCLP package.



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Page 1 of 1