

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: P_{IN} = -10 dBm @ Temperature = +25°C

FREQ	Total Loss ¹		Amp. Unbal.	Phase Unbal.	Isolation	Return Loss		
	S-1	S-2				S	1	2
(MHz)	(dB)	(dB)	(dB)	(Deg.)	(dB)	(dB)	(dB)	(dB)
1500	4.41	4.44	0.02	0.88	19.8	23.0	21.1	21.7
1550	4.34	4.38	0.03	0.83	21.5	20.9	20.3	20.6
1600	4.30	4.34	0.03	0.79	22.3	19.1	19.8	20.0
1650	4.27	4.31	0.03	0.78	22.6	17.8	19.4	19.5
1700	4.25	4.29	0.03	0.76	22.5	16.9	19.1	19.1
1750	4.23	4.27	0.03	0.75	22.3	16.5	19.0	18.9
1800	4.22	4.25	0.03	0.75	22.1	16.2	19.0	18.9
1850	4.20	4.23	0.03	0.76	22.0	16.2	19.0	18.9
1900	4.18	4.22	0.03	0.76	22.1	16.3	19.2	19.0
1950	4.16	4.20	0.03	0.77	22.1	16.6	19.5	19.3
2000	4.14	4.18	0.03	0.78	22.3	17.1	19.8	19.6
2050	4.13	4.17	0.03	0.78	22.4	17.7	20.2	20.0
2100	4.11	4.15	0.03	0.79	22.6	18.5	20.8	20.5
2150	4.10	4.14	0.03	0.80	22.7	19.5	21.5	21.1
2200	4.08	4.12	0.03	0.80	22.9	20.7	22.3	21.8
2250	4.08	4.12	0.02	0.82	23.0	22.2	23.2	22.6
2300	4.07	4.11	0.02	0.83	23.1	24.1	24.2	23.6
2350	4.06	4.10	0.02	0.83	23.1	26.5	25.5	24.7
2400	4.06	4.10	0.02	0.83	23.0	29.9	26.9	26.0
2450	4.06	4.10	0.02	0.84	22.9	34.6	28.6	27.5
2500	4.06	4.10	0.02	0.84	22.7	37.0	30.5	29.2
2550	4.07	4.11	0.02	0.85	22.5	32.2	32.2	30.9
2600	4.08	4.12	0.02	0.85	22.3	28.2	32.8	32.1
2650	4.09	4.13	0.02	0.86	22.0	25.3	32.1	32.1
2700	4.10	4.14	0.03	0.86	21.8	23.3	30.4	31.0
2750	4.11	4.15	0.02	0.86	21.6	21.6	28.5	29.4
2800	4.13	4.17	0.02	0.86	21.4	20.3	26.8	27.7
2850	4.15	4.18	0.03	0.85	21.3	19.2	25.3	26.2
2900	4.16	4.20	0.03	0.85	21.1	18.3	24.1	25.0
2950	4.18	4.22	0.03	0.86	21.1	17.5	23.1	23.8
3000	4.20	4.24	0.03	0.87	21.0	16.9	22.2	22.9
3050	4.22	4.26	0.04	0.88	21.1	16.3	21.4	22.0
3100	4.23	4.27	0.04	0.89	21.2	15.9	20.7	21.3
3150	4.25	4.29	0.04	0.91	21.3	15.5	20.1	20.6
3200	4.26	4.30	0.05	0.93	21.5	15.2	19.5	20.0
3250	4.27	4.31	0.05	0.94	21.7	15.0	19.1	19.6
3300	4.28	4.32	0.05	0.96	22.1	14.8	18.7	19.1
3350	4.30	4.34	0.05	0.99	22.5	14.7	18.3	18.8
3400	4.30	4.34	0.05	1.02	23.1	14.7	18.0	18.5
3450	4.31	4.35	0.05	1.04	23.8	14.7	17.8	18.2
3500	4.31	4.35	0.05	1.07	24.7	14.9	17.6	18.0
3550	4.32	4.36	0.05	1.09	25.8	15.0	17.4	17.9
3600	4.32	4.36	0.05	1.15	27.2	15.3	17.4	17.7
3650	4.33	4.37	0.05	1.15	29.1	15.6	17.3	17.7
3700	4.32	4.37	0.05	1.17	31.7	16.1	17.3	17.7
3750	4.32	4.37	0.05	1.18	36.0	16.6	17.4	17.7
3800	4.32	4.37	0.05	1.21	46.1	17.3	17.5	17.8
3850	4.32	4.38	0.05	1.22	43.1	18.2	17.6	17.9
3900	4.33	4.38	0.04	1.23	34.1	19.2	17.8	18.1
3950	4.34	4.39	0.04	1.24	29.6	20.5	18.1	18.3
4000	4.35	4.40	0.04	1.24	26.5	22.1	18.4	18.6
4050	4.36	4.42	0.04	1.26	24.1	24.1	18.7	19.0
4100	4.38	4.44	0.04	1.24	22.1	26.1	19.1	19.4
4150	4.41	4.47	0.03	1.24	20.4	27.0	19.6	19.8
4200	4.45	4.51	0.03	1.21	18.9	25.5	20.1	20.3
4250	4.50	4.56	0.03	1.20	17.6	23.0	20.7	20.8
4300	4.55	4.62	0.03	1.16	16.4	20.5	21.3	21.3
4350	4.62	4.69	0.03	1.14	15.4	18.3	21.8	21.8
4400	4.70	4.77	0.04	1.14	14.4	16.4	22.4	22.2
4450	4.79	4.86	0.04	1.10	13.5	14.8	22.8	22.6
4500	4.90	4.97	0.04	1.10	12.7	13.5	23.2	22.8

1. Total Loss = Single Path (S-1 or S-2) Insertion Loss + 3 dB Splitter Loss

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: P_{IN} = -10 dBm @ Temperature = -45°C

FREQ	Total Loss ¹		Amp. Unbal.	Phase Unbal.	Isolation	Return Loss		
	S-1	S-2				S	1	2
(MHz)	(dB)	(dB)	(dB)	(Deg.)	(dB)	(dB)	(dB)	(dB)
1500	4.24	4.26	0.02	0.85	19.8	22.2	21.3	22.1
1550	4.18	4.20	0.02	0.78	21.7	20.8	20.5	20.9
1600	4.14	4.17	0.02	0.74	22.7	19.1	19.9	20.1
1650	4.11	4.14	0.02	0.71	23.0	17.9	19.5	19.6
1700	4.09	4.12	0.02	0.69	22.8	17.0	19.1	19.2
1750	4.07	4.10	0.03	0.68	22.5	16.5	19.0	19.0
1800	4.06	4.09	0.03	0.67	22.3	16.2	18.9	18.8
1850	4.05	4.08	0.03	0.67	22.1	16.1	18.9	18.8
1900	4.03	4.06	0.03	0.68	22.1	16.2	19.0	18.9
1950	4.01	4.05	0.03	0.68	22.1	16.5	19.3	19.0
2000	3.99	4.03	0.03	0.70	22.2	17.0	19.6	19.3
2050	3.98	4.01	0.03	0.70	22.3	17.5	20.1	19.7
2100	3.96	4.00	0.03	0.71	22.5	18.3	20.6	20.2
2150	3.95	3.98	0.03	0.72	22.6	19.3	21.3	20.7
2200	3.93	3.96	0.03	0.73	22.8	20.5	22.0	21.4
2250	3.92	3.96	0.03	0.74	22.9	22.0	22.9	22.2
2300	3.91	3.94	0.03	0.75	23.0	23.9	23.9	23.1
2350	3.90	3.94	0.03	0.76	23.0	26.4	25.1	24.2
2400	3.90	3.93	0.03	0.77	23.0	29.8	26.4	25.3
2450	3.90	3.93	0.03	0.77	22.8	35.6	28.0	26.7
2500	3.90	3.93	0.03	0.77	22.7	40.9	29.5	28.2
2550	3.91	3.94	0.02	0.79	22.5	33.3	30.8	29.6
2600	3.91	3.95	0.03	0.77	22.2	28.6	31.2	30.6
2650	3.92	3.96	0.02	0.78	22.0	25.5	30.6	30.7
2700	3.93	3.97	0.02	0.78	21.7	23.3	29.3	29.9
2750	3.95	3.98	0.02	0.77	21.5	21.6	27.7	28.6
2800	3.96	3.99	0.02	0.77	21.3	20.2	26.2	27.2
2850	3.98	4.01	0.03	0.75	21.1	19.1	24.9	25.9
2900	3.99	4.03	0.03	0.75	20.9	18.2	23.8	24.6
2950	4.01	4.04	0.03	0.74	20.8	17.4	22.8	23.6
3000	4.03	4.06	0.03	0.74	20.8	16.8	22.0	22.7
3050	4.04	4.07	0.04	0.75	20.8	16.3	21.2	21.9
3100	4.06	4.09	0.04	0.75	20.8	15.8	20.6	21.1
3150	4.07	4.10	0.04	0.77	20.9	15.5	20.0	20.5
3200	4.08	4.12	0.05	0.77	21.1	15.2	19.5	20.0
3250	4.10	4.13	0.05	0.78	21.3	15.0	19.0	19.5
3300	4.10	4.14	0.06	0.80	21.6	14.8	18.6	19.1
3350	4.11	4.15	0.06	0.83	22.0	14.7	18.3	18.7
3400	4.12	4.15	0.06	0.85	22.6	14.7	18.0	18.4
3450	4.12	4.16	0.06	0.88	23.2	14.7	17.8	18.2
3500	4.12	4.16	0.07	0.92	24.0	14.9	17.6	18.0
3550	4.13	4.16	0.06	0.95	25.0	15.0	17.5	17.9
3600	4.13	4.17	0.07	1.01	26.2	15.3	17.4	17.8
3650	4.13	4.16	0.06	1.03	27.9	15.6	17.3	17.7
3700	4.12	4.16	0.06	1.06	30.1	16.0	17.3	17.7
3750	4.12	4.16	0.06	1.08	33.4	16.6	17.4	17.7
3800	4.12	4.16	0.06	1.12	39.4	17.2	17.4	17.8
3850	4.12	4.16	0.06	1.14	47.5	18.0	17.5	17.9
3900	4.12	4.16	0.05	1.16	36.5	19.0	17.7	18.0
3950	4.12	4.17	0.05	1.17	31.0	20.2	17.9	18.2
4000	4.13	4.18	0.04	1.17	27.5	21.7	18.2	18.5
4050	4.14	4.19	0.04	1.17	24.8	23.4	18.5	18.8
4100	4.15	4.20	0.03	1.16	22.7	25.3	18.8	19.1
4150	4.18	4.23	0.03	1.14	20.9	26.4	19.2	19.5
4200	4.21	4.26	0.03	1.11	19.4	25.7	19.7	19.9
4250	4.25	4.30	0.02	1.08	18.0	23.6	20.2	20.4
4300	4.29	4.35	0.02	1.02	16.8	21.1	20.7	20.9
4350	4.35	4.41	0.03	0.99	15.7	19.0	21.2	21.3
4400	4.42	4.48	0.03	0.98	14.7	17.1	21.7	21.7
4450	4.50	4.56	0.03	0.92	13.7	15.4	22.2	22.1
4500	4.59	4.66	0.03	0.89	12.9	14.0	22.5	22.3

1. Total Loss = Single Path (S-1 or S-2) Insertion Loss + 3 dB Splitter Loss

Typical Performance Data

Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: P_{IN} = -10 dBm @ Temperature = +85°C

FREQ	Total Loss ¹		Amp. Unbal.	Phase Unbal.	Isolation 1-2	Return Loss		
	S-1	S-2				S	1	2
(MHz)	(dB)	(dB)	(dB)	(Deg.)	(dB)	(dB)	(dB)	(dB)
1500	4.55	4.58	0.02	1.00	19.8	22.9	20.6	21.1
1550	4.49	4.52	0.02	0.96	21.2	20.3	19.9	20.2
1600	4.45	4.48	0.02	0.92	21.9	18.5	19.4	19.6
1650	4.41	4.44	0.02	0.91	22.2	17.3	19.1	19.2
1700	4.39	4.42	0.02	0.90	22.1	16.6	18.9	18.9
1750	4.37	4.40	0.02	0.89	22.0	16.2	18.9	18.8
1800	4.35	4.38	0.02	0.90	22.0	16.0	18.9	18.8
1850	4.33	4.36	0.03	0.91	22.0	16.0	19.0	18.9
1900	4.31	4.34	0.02	0.92	22.1	16.2	19.3	19.1
1950	4.29	4.32	0.02	0.93	22.2	16.6	19.6	19.4
2000	4.27	4.30	0.02	0.95	22.4	17.1	20.1	19.9
2050	4.26	4.29	0.02	0.95	22.6	17.8	20.6	20.4
2100	4.24	4.27	0.02	0.97	22.9	18.7	21.3	21.1
2150	4.23	4.26	0.02	0.98	23.0	19.8	22.1	21.8
2200	4.21	4.24	0.02	0.99	23.2	21.2	23.1	22.8
2250	4.21	4.24	0.02	1.01	23.3	23.0	24.2	23.9
2300	4.20	4.23	0.02	1.02	23.4	25.2	25.6	25.2
2350	4.20	4.23	0.02	1.04	23.3	28.3	27.3	26.8
2400	4.20	4.23	0.02	1.04	23.2	32.7	29.3	28.8
2450	4.20	4.23	0.02	1.05	23.0	35.6	31.8	31.2
2500	4.21	4.24	0.02	1.06	22.8	33.0	33.9	33.2
2550	4.22	4.25	0.02	1.06	22.6	29.2	34.3	33.5
2600	4.24	4.26	0.02	1.06	22.4	26.1	33.1	32.6
2650	4.25	4.28	0.02	1.07	22.1	23.7	31.2	31.2
2700	4.27	4.30	0.02	1.08	21.9	21.9	29.1	29.4
2750	4.29	4.31	0.02	1.08	21.7	20.5	27.2	27.6
2800	4.31	4.33	0.02	1.08	21.5	19.3	25.6	26.0
2850	4.33	4.36	0.02	1.07	21.4	18.3	24.3	24.6
2900	4.35	4.38	0.02	1.07	21.3	17.5	23.2	23.5
2950	4.36	4.39	0.03	1.08	21.2	16.8	22.2	22.5
3000	4.38	4.41	0.03	1.09	21.2	16.2	21.4	21.6
3050	4.40	4.43	0.03	1.11	21.2	15.8	20.7	20.9
3100	4.41	4.44	0.03	1.12	21.3	15.4	20.1	20.3
3150	4.43	4.46	0.04	1.15	21.5	15.1	19.5	19.7
3200	4.44	4.47	0.04	1.17	21.7	14.8	19.1	19.2
3250	4.45	4.48	0.04	1.18	22.0	14.7	18.7	18.8
3300	4.45	4.49	0.04	1.21	22.4	14.6	18.3	18.5
3350	4.47	4.50	0.04	1.25	22.9	14.5	18.0	18.2
3400	4.47	4.51	0.05	1.27	23.6	14.6	17.8	18.0
3450	4.47	4.51	0.05	1.30	24.3	14.6	17.6	17.8
3500	4.48	4.52	0.05	1.34	25.3	14.8	17.5	17.7
3550	4.48	4.52	0.05	1.36	26.6	15.1	17.4	17.6
3600	4.49	4.53	0.05	1.42	28.2	15.4	17.4	17.6
3650	4.49	4.53	0.04	1.43	30.5	15.8	17.4	17.6
3700	4.49	4.53	0.04	1.45	33.8	16.4	17.5	17.7
3750	4.49	4.53	0.04	1.47	40.0	17.0	17.6	17.8
3800	4.49	4.53	0.04	1.51	53.2	17.8	17.8	18.0
3850	4.50	4.54	0.04	1.52	37.6	18.9	18.0	18.2
3900	4.51	4.55	0.03	1.53	31.6	20.1	18.3	18.5
3950	4.52	4.57	0.03	1.54	28.0	21.6	18.6	18.8
4000	4.54	4.58	0.03	1.55	25.3	23.3	19.0	19.2
4050	4.56	4.60	0.03	1.56	23.1	25.1	19.4	19.7
4100	4.59	4.63	0.02	1.54	21.3	26.2	19.9	20.2
4150	4.63	4.67	0.02	1.54	19.7	25.6	20.5	20.7
4200	4.68	4.72	0.02	1.51	18.4	23.4	21.1	21.3
4250	4.74	4.78	0.02	1.49	17.1	20.9	21.7	21.8
4300	4.81	4.85	0.02	1.45	16.0	18.7	22.3	22.3
4350	4.89	4.93	0.02	1.43	15.0	16.8	22.8	22.8
4400	4.98	5.02	0.03	1.44	14.1	15.2	23.3	23.1
4450	5.08	5.13	0.03	1.39	13.2	13.8	23.7	23.3
4500	5.20	5.25	0.03	1.39	12.4	12.6	23.9	23.3

1. Total Loss = Single Path (S-1 or S-2) Insertion Loss + 3 dB Splitter Loss