

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions  
or to view GRAPHS.**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 70mA, Vd = 4.88V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	13.01	18.75	23.48	51.33	1.22	0.52	36.42	17.19	4.27
100	13.01	18.72	23.42	67.23	1.22	0.52	36.24	17.46	4.48
200	12.97	18.78	23.42	53.92	1.23	0.51	36.34	17.49	4.42
300	12.94	18.78	23.40	48.36	1.23	0.51	35.90	17.52	4.56
400	12.90	18.77	23.73	45.54	1.23	0.51	35.50	17.69	4.42
500	12.85	18.80	23.31	44.23	1.24	0.50	34.89	17.77	4.41
600	12.81	18.82	23.74	42.58	1.24	0.50	34.64	17.81	4.44
700	12.78	18.83	22.98	41.54	1.25	0.50	34.65	17.89	4.40
800	12.74	18.85	23.64	40.39	1.25	0.49	34.67	18.06	4.47
900	12.69	18.88	22.70	39.69	1.26	0.49	34.60	18.04	4.39
1000	12.66	18.90	23.10	39.19	1.26	0.49	34.31	18.07	4.45
1100	12.61	18.92	22.50	38.74	1.27	0.48	34.09	17.99	4.38
1200	12.56	18.97	22.37	38.34	1.28	0.48	33.85	17.85	4.47
1300	12.52	19.00	22.10	37.43	1.29	0.47	33.54	17.88	4.45
1400	12.47	19.04	21.50	36.02	1.29	0.47	33.19	17.92	4.52
1500	12.43	19.10	21.27	35.07	1.30	0.46	33.11	17.89	4.57
1600	12.38	19.14	20.73	33.91	1.31	0.46	33.39	17.91	4.53
1700	12.34	19.17	20.81	32.65	1.32	0.46	33.66	17.97	4.49
1800	12.29	19.22	19.90	31.70	1.32	0.45	33.25	17.90	4.54
1900	12.24	19.31	19.78	30.38	1.34	0.44	32.84	17.92	4.49
2000	12.20	19.35	19.12	29.05	1.34	0.44	32.76	17.91	4.43
2100	12.13	19.41	18.80	27.85	1.36	0.43	32.54	17.86	4.55
2200	12.08	19.49	18.36	26.70	1.37	0.43	32.27	17.84	4.43
2300	12.04	19.56	17.92	25.70	1.38	0.42	31.95	17.77	4.55
2400	11.98	19.63	17.62	24.81	1.39	0.42	31.67	17.73	4.52
2500	11.94	19.70	17.14	23.91	1.40	0.41	31.41	17.79	4.54
2600	11.88	19.79	16.81	23.12	1.42	0.41	30.85	17.73	4.55
2700	11.84	19.84	16.46	22.27	1.42	0.40	30.97	17.70	4.59
2800	11.78	19.93	16.18	21.61	1.44	0.40	30.71	17.71	4.53
2900	11.74	20.00	15.88	20.94	1.45	0.39	30.48	17.60	4.67
3000	11.69	20.08	15.56	20.40	1.46	0.39	30.23	17.50	4.51
3100	11.61	20.19	15.27	19.78	1.48	0.38	29.84	17.20	4.68
3200	11.60	20.27	14.99	19.15	1.49	0.38	29.72	17.19	4.55
3300	11.52	20.36	14.77	18.79	1.51	0.37	29.57	17.11	4.77
3400	11.51	20.41	14.61	18.30	1.52	0.37	29.26	17.07	4.71
3500	11.44	20.52	14.43	18.02	1.54	0.37	29.17	16.93	4.62
3600	11.43	20.58	14.37	17.74	1.55	0.37	28.77	16.83	4.76
3700	11.38	20.70	14.11	17.35	1.57	0.36	28.53	16.65	4.68
3800	11.35	20.77	13.99	17.10	1.58	0.36	28.34	16.51	4.89
4000	11.27	20.94	13.78	16.60	1.61	0.35	28.06	16.25	4.72

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Page 1 of 11



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# MMIC Amplifier

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## 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: Icc = 56mA, Vd = 4.71V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.91	18.65	22.68	41.93	1.22	0.52	33.30	15.85	4.20
100	12.89	18.69	22.56	41.58	1.23	0.51	32.99	16.21	4.39
200	12.87	18.69	22.54	41.62	1.23	0.51	33.23	16.03	4.34
300	12.83	18.68	22.54	41.93	1.23	0.51	32.91	16.00	4.46
400	12.80	18.71	22.80	41.43	1.24	0.51	32.60	16.18	4.31
500	12.75	18.71	22.43	41.55	1.24	0.50	32.27	16.20	4.29
600	12.71	18.72	22.89	41.23	1.24	0.50	32.04	16.17	4.31
700	12.67	18.75	22.19	40.55	1.25	0.50	32.20	16.23	4.29
800	12.63	18.77	22.80	39.65	1.25	0.49	32.33	16.34	4.39
900	12.59	18.79	21.94	38.80	1.26	0.49	32.35	16.37	4.30
1000	12.55	18.81	22.29	38.15	1.26	0.49	32.14	16.35	4.32
1100	12.50	18.85	21.76	37.39	1.27	0.48	31.90	16.24	4.28
1200	12.46	18.89	21.61	36.36	1.28	0.48	31.74	16.04	4.38
1300	12.42	18.92	21.37	35.08	1.29	0.47	31.51	16.11	4.34
1400	12.38	18.96	20.80	33.82	1.29	0.47	31.17	16.14	4.42
1500	12.32	19.02	20.62	32.88	1.30	0.46	31.16	16.18	4.46
1600	12.28	19.07	20.10	31.77	1.31	0.46	31.50	16.16	4.41
1700	12.24	19.10	20.16	30.66	1.32	0.45	31.94	16.17	4.37
1800	12.19	19.16	19.33	29.81	1.33	0.45	31.65	16.08	4.43
1900	12.14	19.23	19.20	28.64	1.34	0.44	31.26	16.11	4.40
2000	12.10	19.27	18.57	27.50	1.34	0.44	31.21	16.12	4.33
2100	12.03	19.34	18.25	26.46	1.36	0.43	31.10	16.16	4.43
2200	11.99	19.41	17.83	25.44	1.37	0.43	30.90	16.21	4.31
2300	11.94	19.47	17.42	24.57	1.38	0.42	30.69	16.33	4.41
2400	11.89	19.55	17.12	23.79	1.39	0.42	30.48	16.38	4.40
2500	11.85	19.61	16.68	23.00	1.40	0.41	30.19	16.49	4.45
2600	11.78	19.70	16.35	22.28	1.41	0.41	29.64	16.42	4.41
2700	11.74	19.77	16.02	21.49	1.42	0.40	29.77	16.33	4.46
2800	11.69	19.86	15.73	20.87	1.44	0.40	29.57	16.33	4.39
2900	11.64	19.92	15.45	20.29	1.45	0.39	29.38	16.19	4.54
3000	11.59	20.01	15.16	19.77	1.46	0.39	29.20	16.08	4.37
3100	11.52	20.11	14.86	19.20	1.48	0.38	28.82	15.86	4.58
3200	11.50	20.20	14.58	18.62	1.49	0.38	28.66	15.93	4.43
3300	11.43	20.28	14.37	18.29	1.51	0.38	28.61	15.95	4.67
3400	11.42	20.34	14.23	17.83	1.52	0.37	28.38	15.96	4.59
3500	11.35	20.46	14.05	17.57	1.54	0.37	28.19	15.85	4.51
3600	11.34	20.50	13.99	17.30	1.54	0.37	27.69	15.76	4.63
3700	11.29	20.62	13.74	16.95	1.56	0.36	27.41	15.54	4.52
3800	11.26	20.70	13.60	16.71	1.58	0.36	27.29	15.41	4.75
4000	11.18	20.86	13.42	16.24	1.61	0.35	27.03	15.27	4.57

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Page 2 of 11



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## 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: Icc = 84mA, Vd = 5.04V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	13.08	18.81	24.04	42.39	1.22	0.52	38.63	17.42	4.38
100	13.07	18.79	23.99	44.09	1.22	0.52	38.48	17.66	4.61
200	13.03	18.81	23.98	43.29	1.23	0.51	38.26	17.74	4.51
300	13.01	18.81	23.99	41.62	1.23	0.51	37.58	17.83	4.71
400	12.96	18.83	24.29	40.59	1.23	0.51	37.15	18.05	4.53
500	12.92	18.85	23.83	39.82	1.24	0.50	36.36	18.18	4.51
600	12.87	18.86	24.35	39.04	1.24	0.50	35.94	18.30	4.53
700	12.83	18.89	23.51	38.53	1.25	0.50	35.79	18.48	4.53
800	12.80	18.90	24.21	37.92	1.25	0.49	35.61	18.75	4.58
900	12.75	18.91	23.23	37.56	1.26	0.49	35.46	18.82	4.50
1000	12.71	18.94	23.63	37.52	1.26	0.49	35.20	18.94	4.54
1100	12.67	18.97	23.01	37.45	1.27	0.48	34.94	18.94	4.51
1200	12.62	19.01	22.87	37.54	1.28	0.48	34.66	18.82	4.59
1300	12.58	19.06	22.57	37.55	1.28	0.47	34.26	18.80	4.55
1400	12.54	19.09	21.96	36.58	1.29	0.47	33.97	18.81	4.62
1500	12.49	19.15	21.74	35.99	1.30	0.46	33.83	18.75	4.69
1600	12.44	19.19	21.18	35.06	1.31	0.46	34.04	18.81	4.66
1700	12.40	19.22	21.23	33.89	1.32	0.46	34.04	18.84	4.60
1800	12.35	19.29	20.32	32.87	1.33	0.45	33.60	18.78	4.66
1900	12.29	19.36	20.19	31.53	1.34	0.44	33.22	18.80	4.63
2000	12.25	19.39	19.49	30.03	1.34	0.44	33.10	18.75	4.56
2100	12.19	19.45	19.17	28.76	1.36	0.43	32.90	18.63	4.66
2200	12.14	19.54	18.72	27.56	1.37	0.43	32.55	18.52	4.55
2300	12.09	19.60	18.27	26.48	1.38	0.42	32.26	18.38	4.68
2400	12.04	19.67	17.96	25.48	1.39	0.42	31.94	18.32	4.67
2500	12.00	19.75	17.47	24.53	1.40	0.41	31.72	18.36	4.63
2600	11.94	19.84	17.14	23.68	1.42	0.41	31.13	18.30	4.65
2700	11.90	19.90	16.78	22.74	1.43	0.40	31.26	18.30	4.70
2800	11.83	19.99	16.49	22.07	1.44	0.40	30.99	18.33	4.64
2900	11.79	20.05	16.19	21.38	1.45	0.39	30.71	18.23	4.79
3000	11.74	20.14	15.88	20.79	1.47	0.39	30.49	18.15	4.65
3100	11.66	20.24	15.56	20.15	1.49	0.38	30.11	17.86	4.83
3200	11.65	20.31	15.27	19.48	1.50	0.38	29.98	17.83	4.68
3300	11.57	20.40	15.04	19.12	1.51	0.37	29.82	17.71	4.91
3400	11.56	20.47	14.89	18.61	1.52	0.37	29.47	17.65	4.84
3500	11.50	20.58	14.70	18.31	1.54	0.37	29.45	17.53	4.76
3600	11.48	20.62	14.65	18.01	1.55	0.36	29.08	17.44	4.90
3700	11.44	20.75	14.39	17.62	1.57	0.36	28.80	17.26	4.81
3800	11.40	20.82	14.25	17.34	1.59	0.36	28.66	17.16	5.02
4000	11.32	20.99	14.06	16.81	1.62	0.35	28.33	16.94	4.86

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Page 3 of 11



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## 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: I<sub>cc</sub> = 70mA, V<sub>d</sub> = 4.93V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	13.11	18.83	23.21	58.18	1.22	0.52	37.39	17.66	3.65
100	13.10	18.81	22.30	44.38	1.22	0.52	37.15	17.96	3.87
200	13.07	18.79	22.11	41.93	1.22	0.52	37.12	17.92	3.76
300	13.06	18.81	23.62	44.65	1.22	0.52	36.71	17.94	3.88
400	13.03	18.82	24.30	39.20	1.23	0.51	36.29	18.09	3.78
500	12.98	18.82	23.53	40.49	1.23	0.51	35.79	18.16	3.73
600	12.94	18.83	24.17	39.89	1.23	0.51	35.45	18.18	3.77
700	12.90	18.84	23.41	37.93	1.24	0.50	35.52	18.23	3.73
800	12.87	18.86	24.05	37.37	1.24	0.50	35.47	18.35	3.83
900	12.84	18.88	22.78	39.45	1.25	0.50	35.43	18.35	3.71
1000	12.80	18.89	22.87	40.78	1.25	0.50	35.23	18.37	3.76
1100	12.76	18.92	22.53	40.33	1.26	0.49	34.97	18.31	3.71
1200	12.72	18.95	22.65	40.48	1.26	0.49	34.82	18.16	3.80
1300	12.68	19.00	22.62	39.32	1.27	0.48	34.55	18.19	3.77
1400	12.64	19.02	22.17	36.89	1.27	0.48	34.22	18.23	3.84
1500	12.59	19.07	22.01	36.88	1.28	0.47	34.11	18.24	3.89
1600	12.54	19.11	21.31	37.08	1.29	0.47	34.40	18.26	3.84
1700	12.51	19.14	21.39	35.97	1.30	0.47	34.65	18.29	3.80
1800	12.47	19.19	20.45	34.92	1.30	0.46	34.30	18.27	3.84
1900	12.41	19.26	20.35	33.67	1.32	0.45	33.93	18.28	3.77
2000	12.37	19.30	19.72	32.40	1.32	0.45	33.85	18.30	3.75
2100	12.31	19.36	19.35	30.85	1.33	0.44	33.70	18.29	3.84
2200	12.27	19.42	18.86	29.29	1.34	0.44	33.42	18.31	3.74
2300	12.23	19.49	18.42	28.03	1.35	0.43	33.09	18.30	3.85
2400	12.18	19.57	18.11	26.89	1.37	0.43	32.88	18.31	3.81
2500	12.13	19.63	17.50	25.73	1.37	0.42	32.62	18.38	3.82
2600	12.07	19.73	17.06	24.54	1.39	0.42	31.97	18.34	3.80
2700	12.03	19.73	16.62	23.16	1.39	0.42	32.13	18.32	3.86
2800	11.97	19.84	16.27	22.15	1.41	0.41	31.88	18.37	3.82
2900	11.92	19.91	15.98	21.41	1.42	0.41	31.65	18.24	3.94
3000	11.88	20.00	15.67	20.86	1.43	0.40	31.44	18.17	3.80
3100	11.81	20.07	15.41	20.26	1.45	0.40	31.08	17.90	3.98
3200	11.80	20.16	15.25	19.74	1.46	0.39	30.88	17.89	3.84
3300	11.73	20.23	15.13	19.60	1.47	0.39	30.75	17.86	4.05
3400	11.73	20.29	15.11	19.25	1.48	0.39	30.41	17.83	3.99
3500	11.66	20.38	14.99	18.94	1.50	0.38	30.35	17.70	3.91
3600	11.66	20.41	14.98	18.53	1.50	0.38	30.03	17.62	3.99
3700	11.61	20.52	14.80	18.11	1.52	0.37	29.76	17.46	3.95
3800	11.58	20.62	14.67	17.74	1.54	0.37	29.55	17.37	4.12
4000	11.51	20.78	14.53	17.12	1.57	0.36	29.23	17.15	3.96

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Page 4 of 11



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## 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: Icc = 56mA, Vd = 4.76V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	13.02	18.76	22.54	44.45	1.22	0.52	33.99	15.93	3.57
100	13.02	18.73	21.67	36.95	1.22	0.52	33.67	16.34	3.75
200	12.98	18.74	21.49	36.01	1.22	0.52	33.79	16.05	3.66
300	12.97	18.72	22.90	50.98	1.22	0.52	33.60	16.03	3.77
400	12.94	18.76	23.52	47.84	1.23	0.51	33.39	16.30	3.70
500	12.89	18.75	22.82	44.85	1.23	0.51	32.97	16.29	3.62
600	12.85	18.76	23.39	46.10	1.24	0.51	32.79	16.28	3.67
700	12.82	18.76	22.71	42.61	1.24	0.50	32.96	16.37	3.65
800	12.78	18.80	23.30	39.95	1.24	0.50	33.05	16.43	3.74
900	12.75	18.81	22.10	40.80	1.25	0.50	33.09	16.50	3.62
1000	12.71	18.83	22.19	40.87	1.25	0.49	32.91	16.50	3.64
1100	12.67	18.86	21.90	40.07	1.26	0.49	32.67	16.36	3.61
1200	12.63	18.88	22.00	40.79	1.26	0.49	32.54	16.11	3.69
1300	12.59	18.92	21.98	39.75	1.27	0.48	32.34	16.17	3.67
1400	12.56	18.95	21.55	36.72	1.28	0.48	32.08	16.23	3.73
1500	12.50	19.00	21.37	35.87	1.28	0.47	32.02	16.26	3.78
1600	12.47	19.04	20.72	35.28	1.29	0.47	32.37	16.27	3.74
1700	12.42	19.08	20.81	33.96	1.30	0.46	32.72	16.27	3.68
1800	12.38	19.13	19.91	32.92	1.31	0.46	32.47	16.13	3.73
1900	12.33	19.20	19.82	31.74	1.32	0.45	32.17	16.18	3.69
2000	12.30	19.22	19.22	30.57	1.32	0.45	32.14	16.22	3.64
2100	12.23	19.29	18.85	29.23	1.33	0.44	32.05	16.23	3.72
2200	12.19	19.36	18.39	27.90	1.34	0.44	31.84	16.37	3.62
2300	12.13	19.42	17.96	26.77	1.35	0.43	31.73	16.51	3.73
2400	12.10	19.49	17.66	25.78	1.36	0.43	31.51	16.64	3.69
2500	12.05	19.56	17.09	24.73	1.37	0.42	31.27	16.82	3.70
2600	11.98	19.65	16.65	23.67	1.39	0.42	30.80	16.75	3.69
2700	11.95	19.69	16.23	22.42	1.39	0.42	30.94	16.68	3.76
2800	11.89	19.80	15.89	21.48	1.41	0.41	30.71	16.63	3.67
2900	11.85	19.83	15.59	20.80	1.42	0.41	30.55	16.49	3.83
3000	11.80	19.93	15.29	20.30	1.43	0.40	30.39	16.47	3.66
3100	11.73	20.03	15.04	19.70	1.45	0.40	30.03	16.26	3.86
3200	11.72	20.10	14.88	19.24	1.46	0.39	29.85	16.36	3.70
3300	11.66	20.17	14.77	19.12	1.47	0.39	29.79	16.47	3.95
3400	11.65	20.22	14.73	18.80	1.48	0.39	29.37	16.54	3.86
3500	11.58	20.31	14.61	18.50	1.50	0.38	29.35	16.45	3.81
3600	11.59	20.35	14.62	18.11	1.50	0.38	28.95	16.38	3.88
3700	11.54	20.48	14.46	17.71	1.52	0.37	28.69	16.19	3.85
3800	11.51	20.55	14.32	17.38	1.53	0.37	28.51	16.04	4.01
4000	11.44	20.71	14.18	16.79	1.56	0.37	28.24	15.99	3.82

## 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: Icc = 84mA, Vd = 5.11V @Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	13.17	18.81	23.72	44.71	1.21	0.52	39.66	18.02	3.75
100	13.16	18.83	22.78	52.30	1.22	0.52	39.38	18.28	3.98
200	13.13	18.87	22.57	49.10	1.22	0.52	39.04	18.35	3.86
300	13.11	18.84	24.16	39.57	1.22	0.52	38.51	18.41	3.99
400	13.08	18.86	24.84	36.13	1.23	0.51	37.94	18.63	3.88
500	13.03	18.86	24.04	37.24	1.23	0.51	37.18	18.79	3.83
600	12.99	18.87	24.69	36.80	1.23	0.51	36.83	18.89	3.85
700	12.96	18.87	23.89	35.46	1.24	0.51	36.74	19.05	3.82
800	12.93	18.89	24.59	35.39	1.24	0.50	36.56	19.30	3.92
900	12.89	18.92	23.21	37.20	1.24	0.50	36.49	19.35	3.82
1000	12.85	18.94	23.32	38.45	1.25	0.50	36.18	19.44	3.84
1100	12.81	18.96	22.97	38.31	1.26	0.49	35.95	19.40	3.81
1200	12.76	19.00	23.10	38.20	1.26	0.49	35.74	19.30	3.89
1300	12.72	19.04	23.07	37.46	1.27	0.48	35.42	19.29	3.87
1400	12.69	19.06	22.61	35.98	1.27	0.48	35.10	19.31	3.92
1500	12.64	19.11	22.44	36.49	1.28	0.47	34.92	19.30	3.97
1600	12.60	19.14	21.70	37.25	1.29	0.47	35.11	19.33	3.95
1700	12.55	19.18	21.80	36.65	1.30	0.47	35.25	19.37	3.88
1800	12.51	19.25	20.82	35.90	1.31	0.46	34.90	19.34	3.93
1900	12.46	19.30	20.73	34.87	1.32	0.45	34.57	19.36	3.87
2000	12.42	19.33	20.08	33.51	1.32	0.45	34.40	19.35	3.85
2100	12.36	19.39	19.70	31.84	1.33	0.45	34.30	19.28	3.92
2200	12.31	19.47	19.22	30.24	1.34	0.44	33.95	19.24	3.83
2300	12.27	19.53	18.76	28.87	1.35	0.43	33.64	19.12	3.93
2400	12.22	19.59	18.44	27.64	1.36	0.43	33.28	19.07	3.91
2500	12.18	19.66	17.83	26.38	1.37	0.42	33.04	19.10	3.89
2600	12.11	19.76	17.37	25.14	1.39	0.42	32.47	19.04	3.92
2700	12.07	19.78	16.92	23.69	1.39	0.41	32.61	19.03	3.98
2800	12.01	19.88	16.57	22.59	1.41	0.41	32.31	19.06	3.91
2900	11.97	19.94	16.26	21.81	1.42	0.41	32.09	19.00	4.04
3000	11.91	20.03	15.94	21.25	1.44	0.40	31.89	18.93	3.90
3100	11.85	20.13	15.67	20.58	1.45	0.39	31.48	18.66	4.08
3200	11.84	20.21	15.51	20.06	1.46	0.39	31.29	18.63	3.91
3300	11.77	20.27	15.39	19.92	1.48	0.39	31.21	18.51	4.17
3400	11.77	20.33	15.39	19.55	1.48	0.38	30.84	18.46	4.08
3500	11.71	20.42	15.25	19.22	1.50	0.38	30.90	18.37	4.02
3600	11.69	20.45	15.27	18.78	1.51	0.38	30.45	18.29	4.08
3700	11.66	20.57	15.07	18.37	1.53	0.37	30.29	18.13	4.06
3800	11.62	20.64	14.95	17.97	1.54	0.37	30.07	18.08	4.23
4000	11.54	20.80	14.79	17.33	1.57	0.36	29.75	17.89	4.10



## 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: Icc = 70mA, Vd = 4.49V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.91	18.72	23.73	49.46	1.23	0.51	36.03	16.78	4.78
100	12.91	18.69	24.39	44.48	1.23	0.51	35.82	17.01	5.03
200	12.87	18.72	25.29	37.92	1.23	0.51	36.07	17.05	4.88
300	12.83	18.74	24.33	39.19	1.24	0.51	35.50	17.12	5.03
400	12.80	18.74	23.74	40.38	1.24	0.50	34.99	17.32	4.95
500	12.74	18.75	23.18	41.07	1.24	0.50	34.41	17.40	4.96
600	12.70	18.77	23.56	40.71	1.25	0.50	34.11	17.47	4.95
700	12.66	18.80	22.52	39.32	1.25	0.49	34.07	17.59	4.93
800	12.62	18.83	22.83	37.90	1.26	0.49	34.08	17.76	5.01
900	12.57	18.85	21.91	37.23	1.27	0.49	33.91	17.75	4.96
1000	12.53	18.86	22.26	37.25	1.27	0.48	33.63	17.80	4.98
1100	12.47	18.91	21.62	37.04	1.28	0.48	33.44	17.74	4.94
1200	12.43	18.95	21.46	36.26	1.29	0.47	33.20	17.59	5.02
1300	12.39	19.01	21.21	35.34	1.30	0.47	32.79	17.58	4.98
1400	12.34	19.04	20.72	34.27	1.30	0.46	32.49	17.61	5.07
1500	12.29	19.09	20.53	33.53	1.31	0.46	32.41	17.58	5.13
1600	12.24	19.13	20.06	32.40	1.32	0.45	32.75	17.60	5.09
1700	12.20	19.18	20.17	31.15	1.33	0.45	32.85	17.63	5.04
1800	12.15	19.24	19.41	30.24	1.34	0.44	32.36	17.58	5.10
1900	12.10	19.31	19.32	28.95	1.35	0.44	31.98	17.60	5.07
2000	12.06	19.36	18.74	27.70	1.36	0.43	31.84	17.55	5.01
2100	11.99	19.42	18.49	26.62	1.37	0.43	31.59	17.46	5.12
2200	11.95	19.50	18.05	25.53	1.38	0.42	31.26	17.41	5.01
2300	11.90	19.58	17.64	24.56	1.39	0.42	30.96	17.31	5.11
2400	11.84	19.66	17.33	23.71	1.41	0.41	30.60	17.25	5.14
2500	11.80	19.72	16.88	22.87	1.42	0.41	30.25	17.28	5.09
2600	11.73	19.82	16.56	22.15	1.44	0.40	29.69	17.23	5.14
2700	11.69	19.87	16.23	21.40	1.44	0.40	29.81	17.17	5.16
2800	11.63	19.99	15.95	20.86	1.46	0.39	29.56	17.18	5.13
2900	11.58	20.05	15.64	20.28	1.47	0.39	29.29	17.02	5.27
3000	11.53	20.14	15.30	19.78	1.49	0.38	29.10	16.91	5.13
3100	11.46	20.25	14.95	19.18	1.51	0.37	28.66	16.61	5.34
3200	11.43	20.34	14.61	18.58	1.52	0.37	28.51	16.62	5.15
3300	11.35	20.42	14.35	18.20	1.54	0.37	28.41	16.51	5.40
3400	11.34	20.51	14.11	17.71	1.55	0.36	28.03	16.42	5.34
3500	11.27	20.60	13.88	17.44	1.57	0.36	27.96	16.31	5.23
3600	11.25	20.67	13.75	17.15	1.58	0.36	27.55	16.21	5.39
3700	11.20	20.79	13.47	16.80	1.60	0.35	27.27	15.97	5.26
3800	11.15	20.88	13.34	16.56	1.62	0.35	27.08	15.81	5.54
4000	11.07	21.07	13.12	16.08	1.65	0.34	26.75	15.57	5.39

## 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: I<sub>cc</sub> = 56mA, V<sub>d</sub> = 4.32V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.79	18.65	22.73	40.44	1.23	0.51	32.83	15.85	4.73
100	12.78	18.62	23.32	44.96	1.23	0.51	32.61	16.20	4.94
200	12.74	18.63	24.04	50.95	1.24	0.51	32.88	16.09	4.81
300	12.71	18.64	23.30	41.97	1.24	0.51	32.51	16.03	4.94
400	12.67	18.65	22.77	37.35	1.24	0.50	32.15	16.18	4.87
500	12.61	18.66	22.28	37.21	1.25	0.50	31.77	16.21	4.86
600	12.57	18.69	22.61	37.29	1.25	0.49	31.57	16.16	4.86
700	12.54	18.71	21.66	36.07	1.26	0.49	31.69	16.20	4.88
800	12.49	18.74	21.97	34.51	1.26	0.49	31.79	16.28	4.93
900	12.44	18.76	21.12	33.88	1.27	0.48	31.78	16.29	4.88
1000	12.41	18.79	21.43	33.78	1.27	0.48	31.60	16.30	4.89
1100	12.36	18.82	20.88	33.37	1.28	0.48	31.34	16.23	4.86
1200	12.31	18.85	20.72	32.70	1.29	0.47	31.13	16.02	4.95
1300	12.27	18.91	20.52	31.97	1.30	0.47	30.91	16.06	4.92
1400	12.22	18.95	20.04	31.38	1.30	0.46	30.57	16.11	4.97
1500	12.18	18.99	19.86	30.82	1.31	0.46	30.52	16.11	5.05
1600	12.12	19.04	19.44	29.91	1.32	0.45	30.92	16.12	5.02
1700	12.09	19.08	19.52	29.06	1.33	0.45	31.35	16.12	4.95
1800	12.04	19.15	18.79	28.32	1.34	0.44	30.99	16.05	5.02
1900	11.99	19.23	18.71	27.29	1.35	0.44	30.58	16.09	4.98
2000	11.94	19.26	18.16	26.18	1.36	0.43	30.52	16.11	4.92
2100	11.88	19.33	17.92	25.26	1.37	0.43	30.28	16.07	5.04
2200	11.84	19.41	17.52	24.29	1.38	0.42	30.11	16.13	4.93
2300	11.79	19.49	17.12	23.48	1.39	0.42	29.87	16.19	5.05
2400	11.74	19.57	16.81	22.70	1.41	0.41	29.63	16.17	5.03
2500	11.69	19.62	16.39	21.97	1.42	0.41	29.34	16.27	4.99
2600	11.62	19.73	16.09	21.30	1.43	0.40	28.80	16.17	5.04
2700	11.58	19.78	15.78	20.62	1.44	0.40	28.93	16.13	5.10
2800	11.52	19.89	15.50	20.13	1.46	0.39	28.72	16.07	5.03
2900	11.48	19.96	15.21	19.63	1.47	0.39	28.52	15.98	5.17
3000	11.42	20.06	14.87	19.14	1.49	0.38	28.33	15.89	5.01
3100	11.35	20.15	14.53	18.59	1.51	0.38	27.91	15.60	5.23
3200	11.32	20.25	14.22	18.03	1.52	0.37	27.78	15.66	5.04
3300	11.24	20.34	13.94	17.71	1.54	0.37	27.67	15.61	5.30
3400	11.23	20.40	13.72	17.23	1.54	0.37	27.27	15.57	5.23
3500	11.16	20.53	13.48	16.98	1.57	0.36	27.21	15.45	5.15
3600	11.14	20.57	13.38	16.70	1.57	0.36	26.83	15.33	5.32
3700	11.09	20.69	13.11	16.38	1.59	0.36	26.52	15.10	5.18
3800	11.04	20.78	12.99	16.16	1.61	0.35	26.37	14.96	5.43
4000	10.96	20.98	12.77	15.70	1.65	0.35	26.12	14.68	5.27



# MMIC Amplifier

# GALI-6+

## 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: Icc = 84mA, Vd = 4.67V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise Figure
					K	Delta			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
50	12.99	18.79	24.49	41.53	1.23	0.51	37.80	17.00	4.89
100	12.97	18.74	25.18	38.48	1.23	0.51	37.84	17.23	5.11
200	12.93	18.76	26.02	34.42	1.23	0.51	37.56	17.29	4.97
300	12.90	18.78	25.04	36.14	1.23	0.51	36.78	17.40	5.13
400	12.86	18.80	24.38	38.64	1.24	0.50	36.33	17.64	5.03
500	12.81	18.82	23.77	39.81	1.24	0.50	35.94	17.76	5.04
600	12.77	18.84	24.19	38.93	1.25	0.50	35.55	17.89	5.02
700	12.72	18.85	23.08	39.00	1.25	0.49	35.34	18.07	5.05
800	12.68	18.88	23.42	38.65	1.26	0.49	35.12	18.37	5.09
900	12.64	18.90	22.43	38.56	1.26	0.49	34.83	18.42	5.05
1000	12.59	18.94	22.80	38.86	1.27	0.48	34.54	18.57	5.05
1100	12.54	18.96	22.12	38.84	1.28	0.48	34.19	18.56	5.04
1200	12.49	19.01	21.96	38.44	1.29	0.47	33.93	18.46	5.10
1300	12.45	19.05	21.69	37.63	1.29	0.47	33.55	18.43	5.10
1400	12.41	19.08	21.16	36.37	1.30	0.46	33.26	18.42	5.15
1500	12.36	19.14	20.97	35.42	1.31	0.46	33.08	18.34	5.23
1600	12.31	19.20	20.50	34.11	1.32	0.45	33.32	18.38	5.20
1700	12.26	19.23	20.61	32.71	1.33	0.45	33.06	18.42	5.15
1800	12.22	19.29	19.78	31.60	1.34	0.44	32.54	18.35	5.19
1900	12.16	19.36	19.72	30.14	1.35	0.44	32.15	18.36	5.18
2000	12.12	19.42	19.10	28.74	1.36	0.43	32.01	18.25	5.12
2100	12.06	19.47	18.84	27.54	1.37	0.43	31.74	18.11	5.23
2200	12.01	19.56	18.40	26.37	1.38	0.42	31.41	18.02	5.11
2300	11.96	19.63	17.98	25.33	1.39	0.42	31.03	17.86	5.23
2400	11.91	19.70	17.66	24.41	1.41	0.41	30.71	17.78	5.24
2500	11.86	19.78	17.18	23.50	1.42	0.40	30.43	17.81	5.22
2600	11.79	19.87	16.88	22.71	1.44	0.40	29.84	17.76	5.26
2700	11.76	19.91	16.53	21.92	1.44	0.40	29.90	17.74	5.29
2800	11.70	20.04	16.24	21.35	1.46	0.39	29.64	17.73	5.26
2900	11.65	20.10	15.93	20.74	1.47	0.39	29.36	17.63	5.37
3000	11.59	20.19	15.57	20.18	1.49	0.38	29.14	17.51	5.26
3100	11.52	20.31	15.22	19.56	1.51	0.37	28.76	17.24	5.43
3200	11.49	20.40	14.88	18.93	1.52	0.37	28.56	17.20	5.28
3300	11.41	20.47	14.60	18.54	1.54	0.37	28.44	17.07	5.52
3400	11.40	20.55	14.36	18.03	1.55	0.36	28.06	17.01	5.46
3500	11.32	20.66	14.11	17.73	1.57	0.36	27.99	16.89	5.38
3600	11.31	20.72	14.00	17.43	1.58	0.36	27.60	16.79	5.54
3700	11.26	20.85	13.71	17.07	1.60	0.35	27.31	16.57	5.39
3800	11.22	20.92	13.57	16.80	1.62	0.35	27.10	16.44	5.68
4000	11.13	21.11	13.35	16.29	1.65	0.34	26.71	16.17	5.51

REV. X1  
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Page 9 of 11



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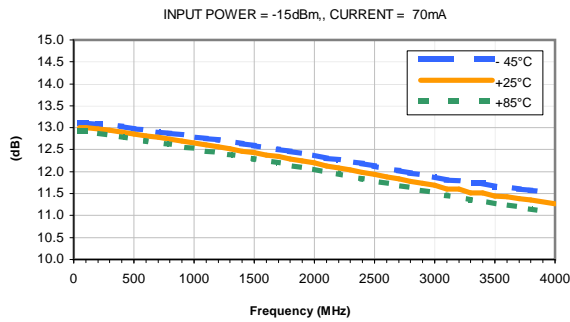


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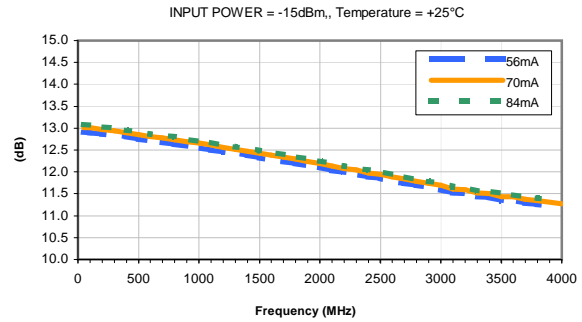


## Typical Performance Curves

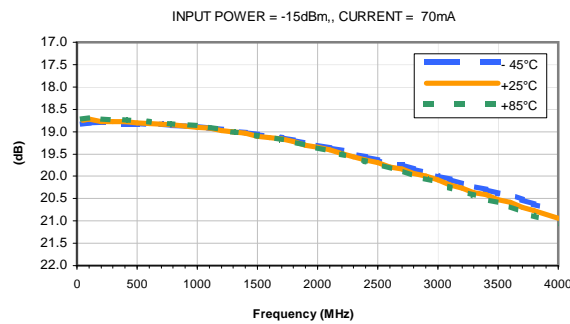
**GAIN vs. TEMPERATURE**



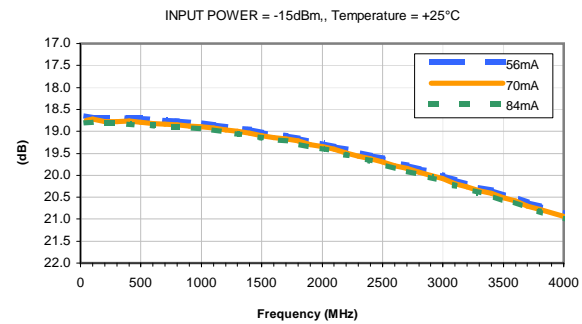
**GAIN vs. CURRENT**



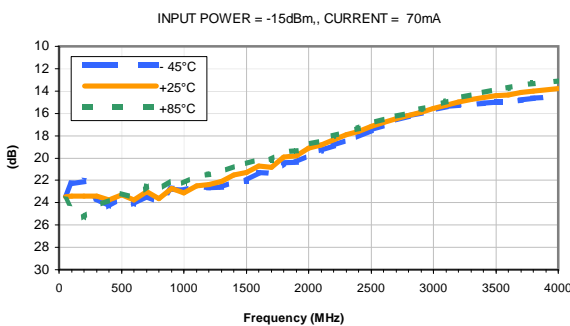
**ISOLATION vs. TEMPERATURE**



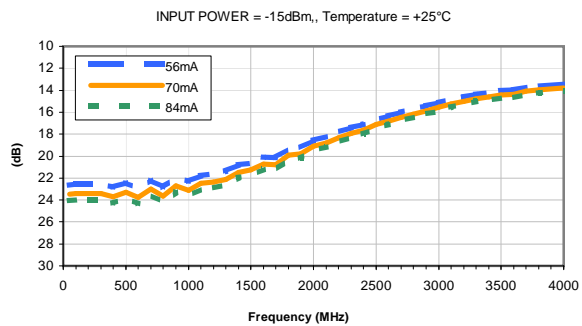
**ISOLATION vs. CURRENT**



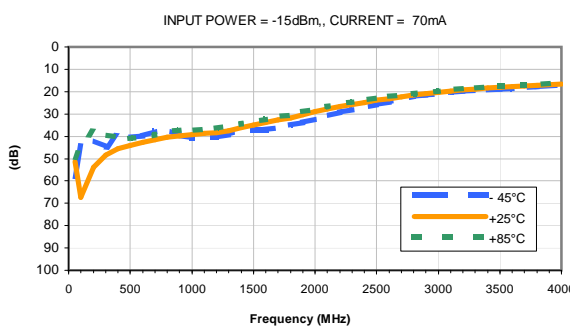
**INPUT RETURN LOSS vs. TEMPERATURE**



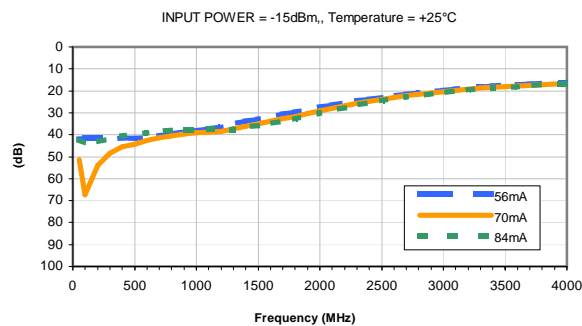
**INPUT RETURN LOSS vs. CURRENT**



**OUTPUT RETURN LOSS vs. TEMPERATURE**



**OUTPUT RETURN LOSS vs. CURRENT**



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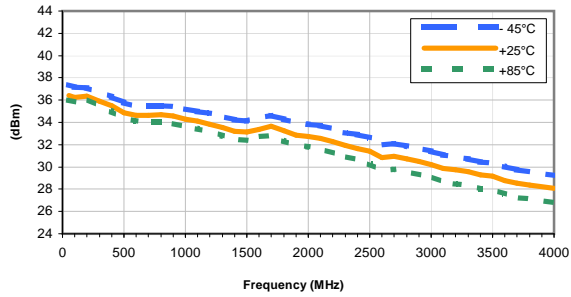
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## Typical Performance Curves

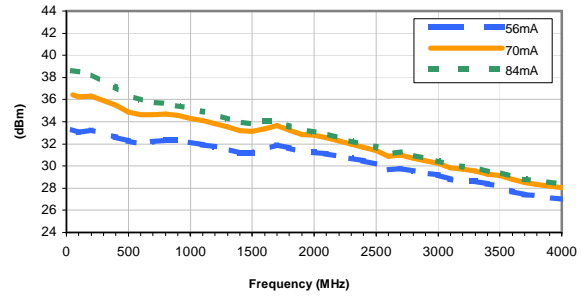
**OUTPUT IP3 vs. TEMPERATURE**

INPUT POWER = -15dBm, CURRENT = 70mA



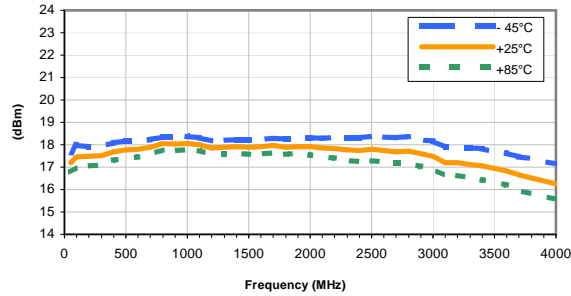
**OUTPUT IP3 vs. CURRENT**

INPUT POWER = -15dBm, Temperature = +25°C



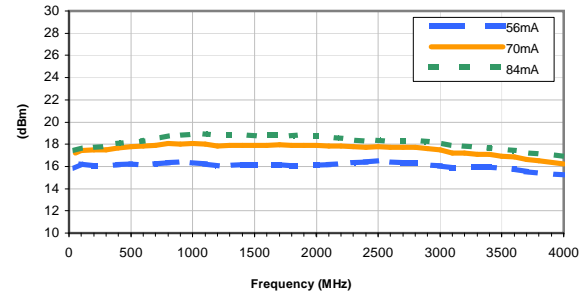
**OUTPUT POWER at 1dB Compression vs. TEMPERATURE**

CURRENT = 70mA



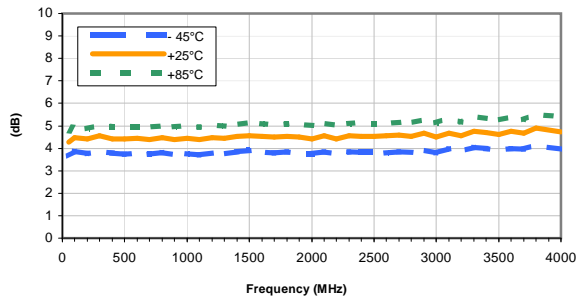
**OUTPUT POWER at 1dB Compression vs. CURRENT**

Temperature = +25°C



**Noise Figure vs. TEMPERATURE**

CURRENT = 70mA



**Noise Figure vs. CURRENT**

Temperature = +25°C

