Amplifier TAMP-242GLN+

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: I = 116mA, Vd = 5V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	Noise* Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(dB)
1710	31.75	43.71	12.93	13.95	1.92	0.25	36.53	19.58	0.82
1720	31.69	43.04	13.07	14.04	1.81	0.27	36.50	19.40	0.82
1750	31.52	43.19	13.46	14.31	1.89	0.26	36.47	19.60	0.83
1760	31.46	42.91	13.65	14.38	1.85	0.27	36.46	19.70	0.84
1780	31.35	42.94	13.95	14.58	1.88	0.26	36.59	19.77	0.84
1800	31.23	42.69	14.30	14.78	1.87	0.26	36.54	19.55	0.84
1830	31.06	42.32	14.72	14.99	1.84	0.27	36.55	19.87	0.85
1840	31.00	42.33	14.88	15.07	1.86	0.27	36.61	19.89	0.85
1860	30.88	42.46	15.27	15.28	1.91	0.26	36.60	19.56	0.84
1880	30.76	42.04	15.68	15.38	1.87	0.27	36.67	19.95	0.83
1900	30.64	41.88	16.13	15.43	1.86	0.27	36.76	19.95	0.83
1930	30.47	41.67	16.80	15.61	1.87	0.28	36.79	19.89	0.84
1950	30.36	41.51	17.24	15.76	1.86	0.28	36.98	19.91	0.84
1960	30.30	41.56	17.56	15.80	1.88	0.27	37.10	19.94	0.85
1980	30.19	41.19	18.07	15.87	1.84	0.28	37.06	19.96	0.85
2000	30.08	41.29	18.64	15.93	1.88	0.28	36.76	20.13	0.85
2020	29.97	40.79	19.32	15.95	1.82	0.29	37.21	20.20	0.83
2040	29.86	40.58	20.07	15.97	1.80	0.29	37.36	19.93	0.84
2050	29.80	40.77	20.43	16.01	1.85	0.28	37.08	19.99	0.84
2060	29.75	40.97	20.85	16.00	1.90	0.28	36.98	20.15	0.85
2080	29.65	40.63	21.59	16.04	1.86	0.28	37.20	20.19	0.87
2100	29.54	40.43	22.46	15.99	1.84	0.29	37.10	20.20	0.87
2120	29.44	40.42	23.39	15.91	1.86	0.29	37.25	20.26	0.87
2140	29.33	40.44	24.39	15.86	1.89	0.28	36.95	20.34	0.86
2180	29.13	39.96	26.16	15.71	1.84	0.29	37.08	20.31	0.88
2190	29.07	40.10	26.29	15.68	1.87	0.29	36.85	20.31	0.88
2200	29.02	39.87	26.51	15.57	1.84	0.29	36.72	20.25	0.89
2220	28.93	39.87	26.43	15.47	1.86	0.29	37.05	20.57	0.89
2240	28.83	39.94	25.92	15.32	1.89	0.29	36.83	20.60	0.89
2260	28.73	39.45	24.70	15.22	1.82	0.30	36.89	20.21	0.89
2280	28.62	39.38	23.53	15.07	1.82	0.30	37.09	20.44	0.91
2300	28.52	39.67	22.22	14.92	1.89	0.29	36.63	20.62	0.91
2320	28.41	39.37	20.88	14.75	1.85	0.30	36.68	20.63	0.92
2340	28.31	39.49	19.65	14.58	1.88	0.29	36.74	20.37	0.94
2360	28.21	39.14	18.48	14.44	1.83	0.30	36.71	20.77	0.95
2370	28.16	38.93	17.94	14.36	1.80	0.31	36.68	20.73	0.95
2380	28.11	38.99	17.43	14.31	1.82	0.31	36.50	20.49	0.96
2390	28.05	38.97	16.93	14.21	1.82	0.31	36.53	20.37	0.96
2400	28.00	38.99	16.49	14.14	1.83	0.31	36.75	20.50	0.97

*The Noise Figure measurement preformed in shielded box.

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 = 120mA, Vd = 5V @Temperature = -40degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)
1710	32.51	43.69	13.17	12.66	1.76	0.27	37.19	19.67
1720	32.39	44.18	13.46	12.67	1.88	0.25	37.16	19.48
1750	32.26	43.45	13.81	12.86	1.77	0.27	37.10	19.76
1760	32.20	43.13	13.73	12.98	1.73	0.28	37.11	19.85
1780	32.01	43.49	14.48	13.04	1.85	0.26	37.21	19.89
1800	31.89	43.06	14.73	12.87	1.79	0.27	37.08	19.66
1830	31.76	43.04	15.07	12.80	1.81	0.27	37.02	20.02
1840	31.67	42.82	15.32	12.97	1.79	0.27	37.05	20.01
1860	31.52	42.47	15.75	13.35	1.77	0.28	37.11	19.68
1880	31.42	42.52	16.24	13.50	1.81	0.28	37.14	20.13
1900	31.29	42.20	16.71	13.58	1.78	0.28	37.37	20.06
1930	31.13	41.72	17.48	13.69	1.74	0.30	37.21	20.02
1950	31.02	42.27	17.99	13.98	1.86	0.28	37.46	20.02
1960	30.95	41.70	18.16	14.00	1.78	0.29	37.48	20.06
1980	30.80	41.68	18.59	14.14	1.81	0.29	37.47	20.09
2000	30.70	41.67	18.95	14.19	1.82	0.29	37.37	20.28
2020	30.59	41.30	19.63	14.34	1.78	0.30	37.84	20.29
2040	30.43	41.25	20.01	14.51	1.81	0.29	37.79	20.04
2050	30.36	40.81	20.69	14.64	1.75	0.30	37.74	20.13
2060	30.29	41.03	21.00	14.64	1.80	0.30	37.77	20.29
2080	30.18	40.97	21.82	14.41	1.81	0.29	37.77	20.32
2100	30.11	40.70	22.55	14.63	1.78	0.30	37.94	20.32
2120	29.97	40.44	23.30	14.85	1.76	0.31	37.75	20.39
2140	29.87	40.32	23.98	14.77	1.76	0.31	37.50	20.45
2180	29.66	40.17	25.59	14.89	1.77	0.31	37.55	20.42
2190	29.61	39.91	25.77	14.99	1.74	0.31	37.51	20.41
2200	29.56	39.97	25.99	15.08	1.76	0.31	37.61	20.36
2220	29.47	39.73	26.04	15.14	1.74	0.32	37.57	20.71
2240	29.33	39.75	27.12	15.09	1.76	0.31	37.29	20.66
2260	29.23	39.79	25.94	15.00	1.79	0.31	37.49	20.30
2280	29.12	39.59	24.81	15.06	1.77	0.31	37.60	20.56
2300	29.00	39.52	23.69	15.22	1.78	0.31	37.42	20.74
2320	28.89	39.22	22.39	15.19	1.75	0.32	37.23	20.70
2340	28.80	38.95	21.08	15.21	1.72	0.32	37.54	20.48
2360	28.67	39.06	20.00	15.18	1.75	0.31	37.47	20.86
2370	28.64	38.84	19.36	15.22	1.72	0.32	37.01	20.79
2380	28.57	38.79	18.71	15.09	1.72	0.32	36.96	20.54
2390	28.54	38.64	18.29	15.19	1.70	0.33	37.17	20.45
2400	28.44	38.87	17.91	15.16	1.75	0.32	37.45	20.61

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 = 115mA, Vd = 5V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)
1710	30.64	44.38	13.75	14.97	2.36	0.21	36.26	19.54
1720	30.61	44.10	13.91	14.90	2.30	0.21	36.09	19.40
1750	30.45	43.83	14.24	15.17	2.28	0.21	36.23	19.47
1760	30.42	43.51	14.35	15.46	2.22	0.22	36.19	19.58
1780	30.26	43.85	14.63	15.41	2.34	0.21	36.29	19.70
1800	30.17	43.41	14.80	15.49	2.26	0.22	36.35	19.52
1830	29.97	43.49	15.28	15.07	2.33	0.21	36.33	19.74
1840	29.92	43.06	15.56	15.33	2.25	0.22	36.31	19.82
1860	29.77	42.69	16.07	15.75	2.21	0.22	36.39	19.48
1880	29.70	42.70	16.51	15.80	2.24	0.22	36.62	19.78
1900	29.62	42.94	16.65	15.97	2.32	0.22	36.61	19.88
1930	29.47	42.71	17.25	15.99	2.30	0.22	36.72	19.79
1950	29.39	42.88	17.67	16.28	2.37	0.21	36.63	19.80
1960	29.34	42.41	17.96	16.34	2.27	0.22	36.62	19.83
1980	29.21	42.01	17.97	16.60	2.22	0.23	36.58	19.85
2000	29.09	41.87	18.54	16.56	2.21	0.23	36.37	20.00
2020	29.02	41.87	19.18	16.41	2.23	0.23	36.64	20.14
2040	28.88	41.29	19.82	16.67	2.14	0.24	36.74	19.86
2050	28.82	41.52	20.11	16.67	2.21	0.23	36.46	19.90
2060	28.78	41.39	20.49	16.58	2.18	0.23	36.42	20.06
2080	28.68	41.16	21.23	16.35	2.16	0.24	36.56	20.12
2100	28.59	41.41	22.67	16.38	2.24	0.23	36.37	20.14
2120	28.52	40.73	23.69	16.53	2.11	0.24	36.56	20.20
2140	28.41	40.74	24.77	16.38	2.13	0.24	36.19	20.31
2180	28.25	40.37	28.27	16.20	2.09	0.25	36.00	20.28
2190	28.21	40.48	29.56	16.24	2.12	0.24	35.96	20.28
2200	28.17	40.14	30.88	16.26	2.06	0.25	36.03	20.20
2220	28.08	40.55	34.97	16.24	2.17	0.24	36.06	20.53
2240	27.96	40.01	43.21	16.04	2.08	0.25	35.86	20.65
2260	27.87	40.02	41.04	15.92	2.10	0.25	35.72	20.22
2280	27.79	39.99	33.22	15.72	2.11	0.25	36.22	20.41
2300	27.71	39.96	29.40	15.67	2.11	0.25	35.83	20.62
2320	27.59	39.53	26.11	15.50	2.05	0.26	35.77	20.72
2340	27.52	39.54	23.76	15.41	2.06	0.25	35.80	20.37
2360	27.44	39.66	22.03	15.30	2.09	0.25	35.93	20.80
2370	27.41	39.37	21.48	15.34	2.04	0.26	35.69	20.79
2380	27.35	39.38	20.77	15.24	2.05	0.26	35.63	20.55
2390	27.28	39.22	19.98	15.25	2.03	0.26	35.69	20.39
2400	27.23	38.97	19.28	15.20	1.99	0.27	35.78	20.50