Amplifier TAMP-242LN+

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 = 40mA, 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	14.54	21.95	15.39	21.21	1.34	0.42	31.43	17.10	0.59
1750	14.32	21.76	15.20	20.98	1.34	0.42	32.03	17.12	0.58
1760	14.27	21.71	15.17	20.94	1.34	0.42	31.90	17.18	0.59
1780	14.16	21.62	15.11	20.85	1.34	0.42	32.34	16.87	0.59
1800	14.05	21.52	15.04	20.68	1.34	0.42	32.42	17.01	0.61
1810	14.00	21.48	14.98	20.63	1.34	0.42	32.66	17.01	0.61
1820	13.95	21.43	14.93	20.59	1.34	0.41	32.56	17.08	0.62
1850	13.79	21.30	14.74	20.53	1.34	0.41	33.46	17.01	0.58
1860	13.74	21.25	14.68	20.50	1.34	0.41	33.51	17.08	0.58
1880	13.63	21.16	14.60	20.43	1.34	0.41	33.56	17.04	0.58
1900	13.54	21.09	14.50	20.31	1.34	0.41	33.62	16.86	0.59
1910	13.49	21.05	14.44	20.21	1.34	0.41	34.13	16.97	0.59
1920	13.44	21.01	14.39	20.14	1.34	0.41	34.08	17.13	0.60
1950	13.30	20.89	14.19	20.07	1.34	0.41	34.46	17.00	0.59
1960	13.25	20.85	14.11	20.06	1.34	0.41	34.48	16.92	0.60
1980	13.16	20.76	14.00	20.07	1.34	0.41	33.88	17.06	0.61
2000	13.07	20.67	13.91	20.06	1.34	0.41	34.23	16.93	0.60
2010	13.03	20.64	13.87	20.04	1.34	0.41	33.75	16.93	0.60
2050	12.86	20.46	13.64	19.97	1.34	0.41	34.03	17.12	0.59
2060	12.81	20.42	13.59	20.01	1.34	0.41	34.29	17.12	0.60
2080	12.73	20.34	13.48	20.08	1.33	0.41	34.15	16.95	0.61
2100	12.65	20.26	13.37	20.11	1.33	0.41	33.59	17.19	0.63
2110	12.61	20.22	13.33	20.10	1.33	0.41	33.49	17.19	0.63
2120	12.57	20.18	13.29	20.11	1.33	0.41	34.17	17.14	0.63
2150	12.44	20.05	13.14	20.08	1.33	0.41	34.80	17.05	0.64
2160	12.40	20.02	13.07	20.09	1.33	0.41	34.01	17.20	0.64
2180	12.32	19.93	12.93	20.16	1.33	0.41	33.79	17.39	0.65
2200	12.24	19.86	12.81	20.24	1.33	0.41	34.96	17.06	0.64
2220	12.16	19.79	12.73	20.26	1.33	0.41	34.28	17.10	0.64
2250	12.05	19.67	12.59	20.27	1.32	0.41	34.13	17.34	0.63
2260	12.01	19.64	12.53	20.27	1.32	0.41	34.84	17.29	0.64
2280	11.93	19.57	12.42	20.27	1.32	0.41	34.33	17.41	0.65
2300	11.85	19.50	12.29	20.35	1.32	0.41	33.54	17.49	0.67
2350	11.66	19.32	12.07	20.35	1.32	0.40	33.96	17.44	0.67
2360	11.62	19.29	12.01	20.31	1.32	0.40	33.16	17.50	0.66
2380	11.55	19.21	11.91	20.29	1.32	0.40	33.87	17.33	0.67
2400	11.48	19.15	11.78	20.30	1.32	0.40	35.05	17.63	0.69

*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 = 40mA, Vd = 5V @Temperature = -45degC

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	14.80	21.78	15.99	21.64	1.30	0.44	31.28	16.81
1750	14.59	21.61	15.89	21.25	1.30	0.44	31.53	16.90
1760	14.53	21.56	15.84	21.25	1.30	0.44	31.41	16.93
1780	14.42	21.47	15.69	21.15	1.30	0.44	31.99	16.62
1800	14.31	21.37	15.51	21.09	1.30	0.44	31.96	16.76
1810	14.25	21.34	15.42	21.08	1.30	0.44	32.22	16.79
1820	14.20	21.29	15.34	21.05	1.30	0.43	32.21	16.83
1850	14.04	21.18	15.30	20.70	1.31	0.43	33.08	16.78
1860	13.98	21.13	15.24	20.63	1.31	0.43	33.07	16.83
1880	13.89	21.03	15.16	20.48	1.31	0.43	32.62	16.76
1900	13.79	20.96	14.97	20.41	1.31	0.43	32.99	16.63
1910	13.75	20.91	14.88	20.39	1.30	0.43	33.32	16.76
1920	13.70	20.86	14.81	20.39	1.30	0.43	33.34	16.91
1950	13.56	20.71	14.68	20.43	1.30	0.43	33.57	16.73
1960	13.52	20.67	14.64	20.35	1.30	0.43	33.44	16.66
1980	13.43	20.61	14.55	20.43	1.30	0.43	33.84	16.79
2000	13.34	20.50	14.44	20.43	1.30	0.43	33.82	16.70
2010	13.30	20.46	14.35	20.43	1.30	0.43	33.16	16.69
2050	13.11	20.29	14.05	20.39	1.30	0.43	33.69	16.85
2060	13.07	20.24	14.06	20.37	1.30	0.43	33.81	16.86
2080	12.99	20.15	14.04	20.39	1.30	0.43	33.86	16.71
2100	12.91	20.08	13.91	20.48	1.30	0.43	33.26	16.98
2110	12.86	20.05	13.85	20.57	1.30	0.43	33.31	16.95
2120	12.82	20.02	13.79	20.52	1.30	0.43	33.98	16.88
2150	12.70	19.87	13.56	20.41	1.29	0.43	34.05	16.86
2160	12.67	19.84	13.49	20.42	1.29	0.43	33.69	17.00
2180	12.59	19.75	13.39	20.45	1.29	0.43	33.62	17.18
2200	12.51	19.67	13.33	20.49	1.29	0.43	34.44	16.77
2220	12.42	19.62	13.22	20.59	1.29	0.43	33.69	16.92
2250	12.31	19.49	12.95	20.59	1.29	0.43	34.01	17.14
2260	12.27	19.44	12.88	20.55	1.28	0.43	34.16	17.07
2280	12.19	19.37	12.80	20.48	1.28	0.43	33.72	17.18
2300	12.12	19.30	12.75	20.52	1.28	0.43	33.25	17.30
2350	11.93	19.14	12.41	20.68	1.28	0.43	33.73	17.25
2360	11.89	19.11	12.32	20.71	1.28	0.43	32.89	17.30
2380	11.82	19.03	12.20	20.56	1.28	0.43	33.32	17.19
2400	11.75	18.95	12.12	20.42	1.27	0.43	34.88	17.43

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 = 40mA, 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	14.28	22.09	15.07	21.41	1.38	0.40	31.62	17.31
1750	14.07	21.91	15.03	21.09	1.38	0.40	32.34	17.31
1760	14.02	21.87	14.98	21.07	1.38	0.40	32.18	17.39
1780	13.91	21.76	14.82	21.03	1.38	0.40	32.79	17.09
1800	13.80	21.68	14.61	20.94	1.38	0.39	32.65	17.21
1810	13.74	21.64	14.52	20.88	1.38	0.39	33.23	17.20
1820	13.68	21.60	14.47	20.86	1.38	0.39	33.26	17.27
1850	13.53	21.49	14.44	20.69	1.39	0.39	34.17	17.21
1860	13.48	21.45	14.41	20.66	1.39	0.39	34.41	17.29
1880	13.39	21.35	14.31	20.55	1.38	0.39	33.96	17.26
1900	13.29	21.25	14.12	20.54	1.38	0.39	34.08	17.09
1910	13.24	21.22	14.03	20.53	1.38	0.39	34.95	17.19
1920	13.19	21.17	13.96	20.48	1.38	0.39	34.16	17.34
1950	13.06	21.02	13.88	20.52	1.38	0.39	34.77	17.24
1960	13.01	20.99	13.86	20.52	1.38	0.39	34.72	17.16
1980	12.92	20.91	13.75	20.60	1.38	0.39	35.35	17.30
2000	12.83	20.82	13.60	20.52	1.38	0.39	34.69	17.18
2010	12.79	20.79	13.50	20.54	1.38	0.39	33.96	17.19
2050	12.60	20.60	13.23	20.45	1.37	0.39	34.75	17.39
2060	12.56	20.56	13.24	20.47	1.38	0.39	34.51	17.36
2080	12.48	20.50	13.24	20.56	1.38	0.39	34.76	17.19
2100	12.40	20.42	13.10	20.56	1.38	0.39	33.92	17.41
2110	12.35	20.38	13.03	20.61	1.38	0.39	33.61	17.45
2120	12.31	20.34	12.96	20.58	1.38	0.39	34.42	17.39
2150	12.19	20.22	12.74	20.47	1.37	0.39	34.83	17.27
2160	12.15	20.18	12.68	20.44	1.37	0.39	34.38	17.42
2180	12.08	20.10	12.63	20.45	1.37	0.39	34.63	17.60
2200	11.99	20.01	12.59	20.51	1.37	0.39	34.83	17.33
2220	11.91	19.95	12.49	20.56	1.37	0.39	35.00	17.33
2250	11.79	19.84	12.26	20.50	1.37	0.39	34.71	17.53
2260	11.75	19.80	12.21	20.45	1.36	0.39	35.81	17.49
2280	11.67	19.71	12.14	20.37	1.36	0.39	35.03	17.62
2300	11.60	19.66	12.12	20.35	1.36	0.39	34.09	17.64
2350	11.41	19.50	11.81	20.27	1.36	0.38	34.01	17.65
2360	11.37	19.48	11.73	20.29	1.36	0.38	33.16	17.54
2380	11.30	19.40	11.64	20.23	1.36	0.38	34.33	17.32
2400	11.23	19.32	11.56	20.16	1.36	0.39	36.18	17.66