

Amplifier

TAMP-272LN+

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: Supply Current = 50mA, DC Supply Voltage= 5V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	FREQ	IP3 Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(MHz)	(dBm)	(dB)
1800	16.20	24.11	10.10	13.99	1.22	0.34	18.31	1800	32.37	0.67
1850	16.02	23.88	10.55	13.67	1.22	0.35	18.34	1850	32.32	0.64
1900	15.85	23.60	10.95	13.43	1.22	0.35	18.32	1900	32.38	0.62
1950	15.68	23.38	11.43	13.17	1.23	0.36	18.34	1950	32.62	0.64
2000	15.52	23.17	11.90	12.97	1.23	0.37	18.29	2000	32.72	0.73
2020	15.46	23.10	12.08	12.92	1.23	0.37	18.32	2050	32.72	0.74
2050	15.37	22.95	12.40	12.80	1.23	0.38	18.30	2100	32.67	0.69
2100	15.22	22.75	12.94	12.63	1.24	0.38	18.30	2150	32.75	0.72
2150	15.08	22.55	13.55	12.54	1.24	0.39	18.36	2200	32.23	0.70
2200	14.93	22.35	14.20	12.45	1.25	0.40	18.35	2250	32.27	0.70
2250	14.80	22.14	14.91	12.43	1.25	0.40	18.50	2300	32.23	0.77
2300	14.66	21.94	15.74	12.38	1.25	0.41	18.45	2320	32.12	0.74
2320	14.60	21.85	16.10	12.39	1.25	0.41	18.49	2340	32.07	0.72
2350	14.53	21.75	16.72	12.43	1.26	0.42	18.45	2350	31.92	0.74
2400	14.39	21.57	17.83	12.49	1.26	0.42	18.51	2360	32.04	0.71
2420	14.34	21.48	18.31	12.52	1.26	0.42	18.55	2380	32.22	0.70
2450	14.26	21.40	19.11	12.61	1.26	0.42	18.56	2400	32.05	0.74
2500	14.14	21.22	20.63	12.76	1.27	0.43	18.60	2450	31.93	0.70
2520	14.08	21.16	21.20	12.79	1.27	0.43	18.61	2500	31.94	0.75
2550	14.00	21.05	22.15	12.94	1.27	0.43	18.64	2550	31.8	0.77
2600	13.87	20.89	23.44	13.17	1.27	0.43	18.64	2600	31.81	0.77
2620	13.81	20.84	23.78	13.29	1.27	0.43	18.62	2650	31.83	0.73
2650	13.73	20.75	23.74	13.47	1.28	0.43	18.61	2700	31.68	0.75
2700	13.58	20.60	22.72	13.86	1.28	0.43	18.63	2750	31.47	0.78
2720	13.52	20.56	21.95	14.01	1.28	0.43	18.61	2800	31.48	0.80
2750	13.43	20.47	20.82	14.29	1.28	0.43	18.67	2850	31.34	0.81
2800	13.28	20.35	18.86	14.76	1.29	0.43	18.68	2900	31.28	0.81
2850	13.11	20.25	17.03	15.31	1.29	0.43	18.61	2950	31.31	0.87
2900	12.93	20.16	15.36	15.91	1.29	0.43	18.62	3000	31.24	0.86
2950	12.74	20.08	13.91	16.62	1.30	0.42	18.56	3050	31.3	0.98
3000	12.54	20.03	12.62	17.29	1.31	0.42	18.65	3100	30.93	0.93
3050	12.33	19.98	11.44	18.00	1.31	0.42	18.41	3150	30.93	1.05
3100	12.09	19.96	10.41	18.50	1.32	0.41	18.65	3200	30.86	1.08
3150	11.85	19.92	9.47	18.99	1.32	0.41	18.42	3250	30.69	1.09
3200	11.59	19.96	8.61	18.97	1.33	0.40	18.60	3300	30.72	1.33
3250	11.31	19.98	7.85	18.76	1.34	0.40	18.16			
3300	11.00	20.04	7.17	18.14	1.35	0.40	18.53			

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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: Supply Current= 49mA, DC Supply Voltage = 5V @Temperature = -40degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	FREQ	IP3 Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(MHz)	(dBm)	(dB)
1800	16.58	23.96	9.85	14.85	1.17	0.37	18.35	1800	33.33	0.45
1850	16.39	23.69	10.20	14.55	1.17	0.38	18.34	1850	33.33	0.35
1900	16.23	23.45	10.63	14.20	1.17	0.38	18.27	1900	33.33	0.38
1950	16.07	23.19	11.25	13.81	1.18	0.39	18.31	1950	33.41	0.41
2000	15.91	23.00	11.72	13.55	1.18	0.40	18.24	2000	33.46	0.45
2020	15.84	22.91	11.84	13.48	1.18	0.40	18.26	2050	33.44	0.44
2050	15.74	22.77	12.09	13.35	1.19	0.40	18.26	2100	33.38	0.43
2100	15.59	22.55	12.65	13.04	1.19	0.41	18.25	2150	33.24	0.47
2150	15.46	22.34	13.40	12.84	1.19	0.42	18.30	2200	33.15	0.49
2200	15.31	22.14	14.07	12.73	1.20	0.43	18.27	2250	33.13	0.47
2250	15.17	21.94	14.58	12.70	1.20	0.43	18.45	2300	33.11	0.49
2300	15.04	21.73	15.48	12.53	1.20	0.44	18.39	2320	33.20	0.45
2320	14.98	21.66	15.93	12.49	1.20	0.44	18.44	2340	33.10	0.47
2350	14.91	21.56	16.58	12.51	1.20	0.45	18.39	2350	33.17	0.46
2400	14.77	21.38	17.54	12.53	1.21	0.45	18.50	2360	33.28	0.40
2420	14.71	21.27	17.91	12.51	1.21	0.45	18.48	2380	33.35	0.39
2450	14.64	21.18	18.75	12.50	1.21	0.46	18.53	2400	33.09	0.38
2500	14.51	21.01	20.84	12.46	1.21	0.46	18.55	2450	33.23	0.43
2520	14.46	20.93	21.85	12.46	1.21	0.46	18.59	2500	33.10	0.45
2550	14.38	20.83	23.32	12.51	1.21	0.46	18.60	2550	33.08	0.44
2600	14.24	20.68	25.68	12.68	1.22	0.47	18.64	2600	33.14	0.47
2620	14.18	20.63	26.76	12.72	1.22	0.47	18.62	2650	33.24	0.43
2650	14.10	20.52	27.64	12.80	1.22	0.47	18.64	2700	33.15	0.44
2700	13.95	20.38	25.77	13.11	1.22	0.47	18.65	2750	33.01	0.39
2720	13.90	20.34	24.43	13.24	1.23	0.47	18.66	2800	33.09	0.45
2750	13.80	20.25	22.70	13.45	1.23	0.47	18.70	2850	32.73	0.46
2800	13.65	20.14	20.17	13.88	1.23	0.47	18.71	2900	32.96	0.45
2850	13.49	20.03	17.90	14.34	1.23	0.46	18.70	2950	32.83	0.52
2900	13.32	19.94	15.81	14.98	1.24	0.46	18.70	3000	32.56	0.48
2950	13.13	19.86	14.07	15.73	1.24	0.46	18.66	3050	32.47	0.55
3000	12.94	19.80	12.68	16.47	1.24	0.45	18.74	3100	32.62	0.47
3050	12.72	19.76	11.33	17.37	1.25	0.45	18.57	3150	32.49	0.54
3100	12.50	19.71	10.32	18.18	1.25	0.44	18.76	3200	32.48	0.48
3150	12.27	19.70	9.44	18.79	1.25	0.44	18.54	3250	32.17	0.45
3200	12.01	19.71	8.50	18.87	1.26	0.44	18.72	3300	32.27	0.75
3250	11.72	19.71	7.69	18.77	1.26	0.43	18.29			
3300	11.43	19.78	6.97	18.14	1.27	0.43	18.64			

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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: Supply Current = 52mA, DC Supply Voltage = 5V @ Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	FREQ	IP3 Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(MHz)	(dBm)	(dB)
1800	16.01	24.21	10.02	13.73	1.24	0.33	18.34	1800	32.95	0.86
1850	15.83	23.97	10.47	13.42	1.24	0.33	18.42	1850	32.71	0.75
1900	15.67	23.71	10.91	13.18	1.25	0.34	18.45	1900	32.89	0.81
1950	15.50	23.50	11.35	12.98	1.25	0.35	18.46	1950	32.88	0.86
2000	15.34	23.29	11.75	12.81	1.26	0.35	18.45	2000	32.90	0.92
2020	15.27	23.19	11.94	12.74	1.26	0.36	18.48	2050	32.99	0.94
2050	15.18	23.05	12.29	12.63	1.26	0.36	18.45	2100	32.97	0.88
2100	15.04	22.85	12.84	12.50	1.26	0.37	18.46	2150	33.02	0.94
2150	14.89	22.65	13.37	12.44	1.27	0.37	18.51	2200	32.79	0.98
2200	14.75	22.46	14.01	12.34	1.27	0.38	18.52	2250	32.70	0.94
2250	14.61	22.23	14.76	12.33	1.27	0.39	18.59	2300	32.46	0.99
2300	14.48	22.04	15.58	12.30	1.28	0.39	18.60	2320	32.30	0.96
2320	14.43	21.99	15.89	12.31	1.28	0.40	18.59	2340	32.48	0.97
2350	14.35	21.87	16.39	12.36	1.28	0.40	18.59	2350	32.44	1.00
2400	14.22	21.66	17.56	12.41	1.28	0.40	18.57	2360	32.46	0.93
2420	14.17	21.61	18.03	12.42	1.29	0.41	18.66	2380	32.65	0.92
2450	14.09	21.49	18.75	12.53	1.29	0.41	18.65	2400	32.35	0.89
2500	13.96	21.34	19.99	12.71	1.29	0.41	18.67	2450	32.21	0.94
2520	13.91	21.27	20.53	12.78	1.29	0.41	18.67	2500	32.16	1.01
2550	13.83	21.15	21.28	12.90	1.29	0.41	18.70	2550	31.98	0.98
2600	13.69	21.01	22.33	13.20	1.30	0.41	18.68	2600	32.15	1.03
2620	13.64	20.95	22.63	13.33	1.30	0.42	18.67	2650	31.90	0.97
2650	13.56	20.86	22.52	13.49	1.30	0.42	18.62	2700	32.06	1.00
2700	13.41	20.74	21.65	13.93	1.31	0.41	18.63	2750	31.74	0.99
2720	13.35	20.67	21.17	14.09	1.31	0.42	18.58	2800	31.68	1.05
2750	13.26	20.59	20.34	14.31	1.31	0.42	18.66	2850	31.35	1.09
2800	13.11	20.48	18.54	14.82	1.31	0.41	18.63	2900	31.32	1.06
2850	12.94	20.38	16.80	15.38	1.32	0.41	18.51	2950	31.18	1.16
2900	12.77	20.29	15.28	16.02	1.32	0.41	18.53	3000	31.18	1.13
2950	12.58	20.20	13.84	16.72	1.33	0.41	18.44	3050	31.11	1.21
3000	12.38	20.13	12.57	17.36	1.33	0.40	18.51	3100	30.94	1.17
3050	12.17	20.08	11.43	18.14	1.34	0.40	18.19	3150	30.73	1.32
3100	11.93	20.06	10.38	18.68	1.34	0.40	18.50	3200	30.77	1.27
3150	11.69	20.06	9.47	19.21	1.35	0.39	18.21	3250	30.56	1.24
3200	11.42	20.07	8.60	19.20	1.36	0.39	18.40	3300	30.41	1.61
3250	11.14	20.10	7.86	19.06	1.36	0.39	17.92			
3300	10.83	20.17	7.17	18.44	1.38	0.38	18.33			

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