Amplifier TAMP-72LN+

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 = 85mA, DC Supply Voltage = 5V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	FREQ	IP3 Output
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dB)	(MHz)	(dBm)
300	22.25	27.34	15.61	14.97	1.15	0.58	22.77	1.01	400	35.76
320	22.08	27.06	16.37	15.53	1.15	0.59	22.72	0.98	420	35.47
340	21.92	26.85	16.98	16.29	1.15	0.59	22.79	0.94	430	35.59
350	21.84	26.73	17.29	16.60	1.15	0.59	22.88	0.93	440	34.95
360	21.76	26.65	17.56	17.03	1.15	0.59	22.84	0.91	450	35.39
370	21.67	26.54	17.78	17.40	1.15	0.59	22.93	0.90	460	34.96
380	21.58	26.39	17.94	17.71	1.14	0.59	22.84	0.89	470	35.45
400	21.42	26.23	18.17	18.30	1.15	0.59	22.84	0.87	480	35.40
420	21.24	26.08	18.26	19.01	1.15	0.59	22.91	0.88	490	35.53
440	21.07	25.91	18.21	19.62	1.15	0.59	22.92	0.87	500	36.08
450	20.98	25.80	18.13	19.98	1.15	0.59	22.98	0.86	510	35.31
460	20.90	25.66	18.08	20.17	1.14	0.59	22.87	0.86	520	35.15
470	20.82	25.62	18.06	20.56	1.15	0.59	22.90	0.86	530	36.32
480	20.74	25.54	18.05	20.86	1.15	0.59	22.99	0.85	540	35.57
500	20.57	25.38	17.95	21.56	1.15	0.58	23.02	0.85	550	35.64
520	20.41	25.19	17.87	22.17	1.15	0.59	23.08	0.85	560	36.26
540	20.24	25.04	17.74	22.65	1.15	0.58	23.03	0.85	570	35.94
550	20.17	24.94	17.64	22.94	1.14	0.59	22.92	0.86	580	36.47
560	20.08	24.84	17.50	23.14	1.14	0.59	23.00	0.86	590	35.76
570	20.01	24.76	17.43	23.48	1.14	0.59	22.99	0.86	600	35.80
580	19.93	24.66	17.39	23.79	1.14	0.59	23.09	0.86	610	36.13
600	19.77	24.53	17.29	24.45	1.14	0.59	23.04	0.86	620	35.31
620	19.61	24.34	17.24	25.08	1.14	0.59	23.05	0.86	630	35.48
640	19.45	24.15	17.19	25.74	1.14	0.59	23.03	0.87	640	36.17
650	19.38	24.07	17.18	26.10	1.14	0.59	23.05	0.87	650	36.28
660	19.30	24.03	17.06	26.43	1.14	0.59	23.00	0.86	660	36.09
670	19.23	23.95	17.04	26.70	1.14	0.59	23.03	0.85	670	35.38
680	19.15	23.85	16.92	26.66	1.14	0.59	23.07	0.85	680	35.78
700	19.01	23.71	16.84	27.66	1.14	0.59	23.12	0.86	690	37.06
720	18.86	23.57	16.77	28.43	1.14	0.59	23.07	0.86	700	35.58
740	18.70	23.44	16.67	28.64	1.14	0.58	22.95	0.86	720	36.54
750	18.64	23.32	16.68	29.12	1.13	0.59	22.93	0.87	730	37.09
760	18.56	23.27	16.65	29.33	1.13	0.59	22.94	0.88	740	36.66
770	18.49	23.18	16.63	29.61	1.13	0.59	22.88	0.88	750	35.53
780	18.41	23.09	16.57	29.99	1.13	0.59	22.86	0.87	760	35.69
800	18.27	23.01	16.49	30.56	1.14	0.58	22.8	0.85	770	37.22
820	18.13	22.81	16.41	30.99	1.13	0.59	22.72	0.84	780	35.42
840	18.00	22.70	16.35	31.71	1.13	0.58	22.57	0.86	790	36.22
850	17.92	22.62	16.36	31.90	1.13	0.58	22.53	0.86	800	36.74

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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 = 95mA, DC Supply Voltage = 5V @Temperature = -40degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	FREQ	IP3 Output
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dB)	(MHz)	(dBm)
300	22.67	27.69	14.58	16.06	1.14	0.59	23.02	0.70	400	37.42
320	22.48	27.42	15.04	16.80	1.14	0.59	22.92	0.69	420	36.92
340	22.32	27.16	15.46	17.61	1.14	0.59	22.99	0.66	430	37.53
350	22.23	27.15	15.65	17.99	1.14	0.59	23.09	0.65	440	36.76
360	22.14	26.92	15.79	18.26	1.14	0.59	23.07	0.64	450	37.17
370	22.05	26.78	15.95	18.63	1.13	0.60	23.15	0.63	460	37.35
380	21.95	26.76	16.00	18.91	1.14	0.59	23.05	0.62	470	37.58
400	21.78	26.58	16.11	19.40	1.14	0.59	23.00	0.61	480	38.08
420	21.60	26.32	16.09	20.02	1.13	0.59	23.10	0.64	490	37.12
440	21.43	26.15	16.06	20.49	1.13	0.59	23.12	0.64	500	37.20
450	21.34	25.99	16.04	20.78	1.13	0.60	23.17	0.64	510	37.00
460	21.25	25.99	15.99	20.88	1.14	0.59	23.05	0.64	520	37.88
470	21.17	25.91	15.96	21.15	1.14	0.59	23.06	0.64	530	36.66
480	21.08	25.81	15.93	21.25	1.13	0.59	23.16	0.64	540	37.52
500	20.91	25.65	15.85	21.76	1.13	0.59	23.22	0.64	550	38.71
520	20.76	25.46	15.77	22.06	1.13	0.59	23.24	0.63	560	38.66
540	20.59	25.26	15.72	22.52	1.13	0.59	23.19	0.63	570	37.30
550	20.51	25.12	15.64	22.68	1.12	0.60	23.08	0.68	580	37.50
560	20.42	25.15	15.62	22.84	1.13	0.59	23.17	0.67	590	38.32
570	20.35	25.02	15.59	22.99	1.13	0.59	23.16	0.67	600	38.02
580	20.27	24.95	15.56	23.20	1.13	0.59	23.27	0.67	610	38.31
600	20.11	24.76	15.55	23.59	1.13	0.59	23.21	0.67	620	39.17
620	19.96	24.60	15.58	23.99	1.13	0.59	23.21	0.68	630	38.06
640	19.81	24.44	15.59	24.45	1.12	0.59	23.16	0.68	640	38.56
650	19.74	24.33	15.67	24.59	1.12	0.59	23.21	0.67	650	39.34
660	19.66	24.24	15.69	24.96	1.12	0.59	23.14	0.67	660	38.40
670	19.59	24.16	15.69	25.02	1.12	0.60	23.20	0.65	670	38.85
680	19.51	24.06	15.67	24.95	1.12	0.60	23.24	0.65	680	38.84
700	19.37	23.93	15.74	25.48	1.12	0.59	23.36	0.65	690	38.82
720	19.23	23.78	15.78	25.70	1.12	0.59	23.28	0.65	700	38.30
740	19.07	23.64	15.77	26.00	1.12	0.59	23.19	0.65	720	39.61
750	19.01	23.50	15.84	26.02	1.11	0.6	23.19	0.65	730	37.03
760	18.94	23.47	15.90	26.06	1.12	0.59	23.2	0.65	740	38.13
770	18.86	23.39	15.94	26.03	1.12	0.59	23.16	0.65	750	39.27
780	18.79	23.32	15.94	26.24	1.12	0.59	23.17	0.65	760	38.34
800	18.65	23.18	15.98	26.27	1.12	0.59	23.12	0.6	770	37.46
820	18.52	23.03	16.04	26.11	1.11	0.59	23.02	0.6	780	38.91
840	18.38	22.86	16.08	26.22	1.11	0.6	22.9	0.61	790	40.11
850	18.32	22.81	16.14	26.25	1.11	0.59	22.88	0.61	800	37.56

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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 = 78mA, DC Supply Voltage = 5V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Noise Figure	FREQ	IP3 Output
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dB)	(MHz)	(dBm)
300	21.82	26.97	16.35	14.20	1.15	0.58	21.16	1.22	400	34.15
320	21.66	26.82	17.46	14.75	1.16	0.57	21.38	1.19	420	33.87
340	21.52	26.60	18.55	15.47	1.16	0.57	21.45	1.13	430	33.68
350	21.44	26.46	19.07	15.74	1.15	0.58	21.40	1.11	440	33.99
360	21.36	26.32	19.47	16.14	1.15	0.58	21.40	1.09	450	33.44
370	21.28	26.27	19.94	16.48	1.15	0.58	21.44	1.07	460	33.82
380	21.20	26.17	20.19	16.76	1.16	0.58	21.46	1.05	470	33.82
400	21.04	25.97	20.68	17.33	1.15	0.58	21.55	1.03	480	34.39
420	20.87	25.86	20.88	18.16	1.16	0.57	21.53	1.03	490	34.31
440	20.71	25.63	20.96	18.78	1.16	0.58	21.58	1.02	500	33.70
450	20.62	25.57	20.99	19.03	1.16	0.58	21.67	1.01	510	33.59
460	20.55	25.49	20.94	19.33	1.16	0.58	21.69	1.00	520	33.84
470	20.47	25.41	20.91	19.74	1.16	0.58	21.70	1.00	530	34.15
480	20.38	25.30	20.81	20.16	1.16	0.58	21.74	0.99	540	34.74
500	20.22	25.17	20.70	20.91	1.16	0.57	21.69	0.99	550	33.88
520	20.07	24.99	20.46	21.64	1.16	0.57	21.71	0.98	560	33.48
540	19.90	24.84	20.20	22.42	1.16	0.57	21.79	0.98	570	33.93
550	19.82	24.79	20.07	22.90	1.16	0.57	21.80	0.99	580	34.78
560	19.74	24.67	20.01	23.27	1.16	0.57	21.80	0.98	590	34.00
570	19.66	24.57	19.86	23.74	1.16	0.57	21.81	0.98	600	35.14
580	19.59	24.50	19.77	24.17	1.16	0.57	21.79	0.98	610	34.53
600	19.43	24.37	19.54	25.09	1.16	0.57	21.81	0.97	620	33.98
620	19.28	24.20	19.34	25.95	1.16	0.57	21.84	0.97	630	34.26
640	19.12	24.05	19.20	27.03	1.16	0.57	21.89	0.97	640	34.07
650	19.05	23.99	19.16	27.66	1.16	0.57	21.89	0.96	650	34.40
660	18.97	23.92	19.06	28.14	1.16	0.57	21.92	0.96	660	34.48
670	18.90	23.86	18.99	28.99	1.16	0.57	21.83	0.94	670	34.69
680	18.82	23.78	18.84	29.12	1.16	0.57	21.87	0.94	680	34.11
700	18.67	23.60	18.69	30.56	1.16	0.57	21.87	0.95	690	33.93
720	18.52	23.52	18.49	32.03	1.16	0.56	21.96	0.95	700	34.82
740	18.37	23.36	18.21	32.82	1.16	0.57	21.94	0.95	720	34.08
750	18.3	23.27	18.24	33.77	1.16	0.57	21.94	0.96	730	34.61
760	18.22	23.18	18.16	34.74	1.16	0.57	21.99	0.96	740	34.89
770	18.15	23.10	18.08	35.51	1.15	0.57	21.87	0.96	750	34.12
780	18.08	23.06	18.00	36.64	1.16	0.56	21.97	0.96	760	34.35
800	17.93	22.92	17.86	37.78	1.16	0.56	22.00	0.95	770	34.89
820	17.8	22.79	17.74	40.34	1.16	0.56	21.97	0.95	780	34.81
840	17.65	22.65	17.60	42.16	1.15	0.56	21.85	0.96	790	33.84
850	17.59	22.57	17.56	42.65	1.15	0.56	21.77	0.96	800	35.86

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