

# Amplifier

# TAMP-1521GLN+

## 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 = 48mA, Vd = 5V @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)
1380	35.03	49.64	20.68	28.51	2.76	0.19	27.50	13.71	0.63
1385	35.01	49.87	20.81	28.86	2.83	0.18	27.90	13.66	0.63
1390	34.98	48.98	21.06	29.13	2.59	0.20	27.80	13.79	0.57
1395	34.96	48.35	21.23	29.26	2.43	0.22	27.59	13.64	0.60
1400	34.93	48.94	21.31	29.68	2.59	0.20	27.55	13.62	0.59
1405	34.91	49.01	21.61	29.80	2.62	0.20	27.91	13.74	0.58
1410	34.89	49.55	21.71	29.42	2.78	0.19	27.75	13.70	0.59
1415	34.86	49.66	21.98	29.64	2.82	0.18	27.82	13.65	0.58
1420	34.84	48.28	22.23	29.79	2.44	0.21	27.66	13.73	0.56
1425	34.81	48.30	22.34	29.69	2.45	0.21	27.45	13.74	0.60
1430	34.78	48.40	22.53	29.33	2.49	0.21	27.68	13.65	0.58
1435	34.75	48.82	22.85	29.16	2.61	0.20	27.57	13.66	0.59
1440	34.74	48.92	22.99	28.70	2.64	0.20	27.77	13.65	0.62
1445	34.71	47.97	23.22	28.56	2.40	0.22	27.77	13.71	0.63
1450	34.68	48.86	23.36	28.20	2.64	0.19	27.54	13.65	0.64
1455	34.66	47.93	23.52	27.72	2.40	0.22	27.44	13.49	0.60
1460	34.63	48.44	23.81	27.45	2.54	0.20	27.87	13.54	0.60
1465	34.60	48.49	24.04	26.77	2.56	0.20	27.70	13.63	0.60
1470	34.57	47.89	24.34	26.49	2.41	0.22	27.52	13.62	0.61
1475	34.55	48.10	24.53	25.63	2.47	0.21	27.48	13.53	0.57
1480	34.53	47.89	24.74	25.34	2.42	0.21	27.50	13.55	0.59
1485	34.50	46.66	25.14	24.85	2.14	0.25	27.82	13.57	0.61
1490	34.48	48.27	25.42	24.40	2.53	0.20	27.60	13.48	0.57
1495	34.45	47.96	25.55	24.05	2.46	0.21	27.30	13.61	0.61
1500	34.43	48.78	25.82	23.49	2.69	0.19	27.54	13.60	0.60
1505	34.41	47.01	25.99	23.05	2.23	0.23	27.58	13.63	0.63
1510	34.38	48.43	26.35	22.72	2.60	0.20	27.66	13.58	0.59
1515	34.36	48.40	26.41	22.23	2.60	0.20	27.71	13.59	0.59
1520	34.33	47.44	27.04	22.08	2.35	0.22	27.63	13.57	0.57

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Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: I = 46mA, Vd = 5V @Temperature = -40degC

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)
1380	35.74	49.40	20.75	32.23	2.49	0.21	27.57	13.51	0.46
1385	35.72	48.61	20.83	33.57	2.30	0.23	27.48	13.52	0.45
1390	35.68	49.40	21.00	34.42	2.51	0.21	27.01	13.86	0.40
1395	35.65	49.42	21.29	35.84	2.52	0.21	27.49	13.57	0.41
1400	35.62	48.51	21.64	36.59	2.30	0.23	27.52	13.42	0.40
1405	35.60	48.76	22.02	37.69	2.37	0.22	27.39	13.65	0.40
1410	35.58	48.79	21.95	38.13	2.38	0.22	27.38	13.54	0.40
1415	35.55	48.44	22.33	37.97	2.30	0.23	27.49	13.71	0.41
1420	35.53	48.27	22.48	38.51	2.27	0.23	27.48	13.98	0.38
1425	35.50	48.51	22.62	36.90	2.34	0.22	27.64	13.89	0.41
1430	35.48	48.40	22.84	35.87	2.31	0.23	27.42	13.81	0.41
1435	35.44	47.70	23.00	36.12	2.16	0.24	27.53	13.84	0.40
1440	35.43	48.05	23.14	34.43	2.25	0.23	27.21	13.76	0.44
1445	35.39	48.84	23.34	34.46	2.45	0.21	27.33	13.93	0.46
1450	35.36	47.67	23.45	33.95	2.17	0.24	27.41	13.85	0.44
1455	35.34	47.69	23.69	32.49	2.18	0.24	27.45	13.66	0.42
1460	35.32	48.11	23.86	31.66	2.28	0.23	27.43	13.65	0.41
1465	35.28	47.94	24.00	30.68	2.25	0.23	27.50	13.81	0.40
1470	35.25	48.15	24.26	29.86	2.31	0.23	27.48	13.85	0.41
1475	35.23	47.97	24.42	28.87	2.27	0.23	27.12	13.76	0.38
1480	35.22	47.51	24.64	28.21	2.17	0.24	27.69	13.81	0.42
1485	35.19	48.29	24.83	27.67	2.36	0.22	27.39	13.78	0.42
1490	35.16	47.69	25.26	26.82	2.22	0.24	27.50	13.72	0.37
1495	35.14	48.05	25.25	26.27	2.31	0.23	27.42	13.82	0.40
1500	35.12	48.51	25.70	25.74	2.43	0.21	27.49	13.73	0.41
1505	35.09	48.10	25.87	25.18	2.33	0.22	27.31	13.78	0.42
1510	35.07	47.19	25.44	24.75	2.13	0.25	27.44	13.67	0.40
1515	35.04	47.47	25.89	24.43	2.20	0.24	27.65	13.66	0.40
1520	35.01	47.93	25.83	23.97	2.31	0.23	27.45	13.60	0.37

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### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: I = 49mA, Vd = 5V @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)
1380	34.52	48.09	20.39	25.83	2.46	0.21	27.73	13.49	0.82
1385	34.50	48.63	20.58	25.99	2.62	0.20	27.83	13.46	0.81
1390	34.47	49.20	20.84	26.06	2.79	0.19	27.85	13.52	0.77
1395	34.44	49.51	21.13	25.72	2.89	0.18	27.63	13.55	0.77
1400	34.41	49.79	21.33	25.75	2.99	0.17	27.92	13.52	0.77
1405	34.39	47.85	21.56	25.57	2.44	0.21	27.78	13.45	0.78
1410	34.37	48.08	21.74	25.65	2.50	0.21	27.83	13.51	0.78
1415	34.34	48.49	21.84	25.48	2.62	0.20	27.80	13.51	0.78
1420	34.32	48.44	22.08	25.39	2.62	0.20	27.88	13.52	0.75
1425	34.30	48.63	22.32	25.06	2.67	0.19	27.73	13.50	0.78
1430	34.27	48.43	22.57	25.07	2.63	0.20	28.06	13.51	0.79
1435	34.24	48.50	22.85	24.97	2.66	0.19	27.70	13.48	0.78
1440	34.23	49.16	22.94	24.70	2.85	0.18	27.58	13.54	0.82
1445	34.19	48.56	23.22	24.58	2.69	0.19	27.57	13.47	0.84
1450	34.17	48.11	23.41	24.37	2.57	0.20	27.63	13.40	0.82
1455	34.15	47.02	23.62	24.10	2.29	0.23	28.01	13.39	0.81
1460	34.12	47.76	23.94	23.72	2.49	0.21	27.71	13.34	0.80
1465	34.10	47.80	24.14	23.44	2.50	0.20	27.38	13.41	0.79
1470	34.07	47.96	24.47	23.13	2.55	0.20	27.87	13.44	0.78
1475	34.05	48.05	24.71	22.73	2.58	0.20	27.88	13.36	0.76
1480	34.03	48.87	24.95	22.47	2.82	0.18	27.54	13.33	0.78
1485	34.00	48.95	25.23	22.17	2.86	0.18	27.38	13.32	0.81
1490	33.97	48.94	25.53	21.82	2.86	0.18	27.95	13.35	0.75
1495	33.95	48.79	25.93	21.31	2.82	0.18	27.55	13.35	0.80
1500	33.92	48.30	26.11	21.15	2.68	0.19	27.66	13.41	0.78
1505	33.90	47.68	26.57	20.79	2.52	0.20	27.84	13.47	0.80
1510	33.88	47.63	26.83	20.59	2.51	0.20	27.95	13.38	0.79
1515	33.85	47.69	27.09	20.28	2.53	0.20	27.63	13.38	0.79
1520	33.83	48.99	27.49	19.86	2.92	0.17	27.69	13.41	0.77