

# Amplifier

# ZX60-P162LN+

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 4.0V, Id = 50.99mA @ Temperature = 25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
700.0	24.18	38.09	9.54	13.00	2.24	1.00	29.47	19.21	0.65
800.0	23.85	37.74	14.51	15.10	2.43	0.95	30.53	19.89	0.47
900.0	23.27	37.50	20.87	16.24	2.60	0.94	31.34	20.04	0.56
1000.0	22.62	37.57	31.45	16.38	2.82	0.94	31.47	19.93	0.52
1100.0	21.96	37.59	29.58	15.69	3.02	0.95	31.97	19.93	0.50
1200.0	21.29	37.66	23.25	14.44	3.22	0.95	32.44	20.15	0.59
1300.0	20.64	37.55	20.08	13.07	3.35	0.95	32.76	19.67	0.56
1400.0	20.00	37.97	18.21	11.74	3.67	0.94	32.79	19.63	0.65
1500.0	19.37	38.02	16.77	10.55	3.84	0.93	32.91	19.29	0.64
1600.0	18.73	37.92	15.69	9.51	3.94	0.91	32.65	19.45	0.74
1700.0	18.11	38.12	14.79	8.56	4.15	0.89	32.97	19.24	0.75
1800.0	17.46	38.52	13.96	7.70	4.46	0.87	33.20	18.67	0.84
1900.0	16.73	38.88	13.23	6.88	4.79	0.84	32.20	18.62	0.87
2000.0	16.30	38.41	12.69	6.60	4.64	0.83	33.04	17.81	0.90
2100.0	15.76	38.57	12.17	5.94	4.75	0.80	32.53	17.34	0.88
2200.0	15.18	39.01	11.65	5.38	5.03	0.77	31.08	17.03	0.97
2300.0	14.60	39.09	11.18	4.92	5.12	0.74	29.67	16.49	1.01
2400.0	14.02	39.21	10.73	4.52	5.24	0.72	29.87	16.33	1.12
2500.0	13.45	39.36	10.29	4.19	5.38	0.69	28.74	15.39	1.14
2600.0	12.89	39.78	9.89	3.88	5.68	0.67	28.68	15.15	1.31
2700.0	12.31	39.82	9.48	3.63	5.77	0.65	27.95	14.99	1.42
2800.0	11.75	39.50	9.11	3.40	5.60	0.63	27.86	14.38	1.51
2900.0	11.22	39.31	8.80	3.23	5.55	0.61	27.82	13.73	1.48
3000.0	10.72	39.11	8.49	3.05	5.45	0.59	26.40	13.20	1.50
3100.0	10.21	38.96	8.15	2.89	5.38	0.58	25.70	13.04	1.44
3200.0	9.71	38.52	7.85	2.71	5.09	0.56	25.21	12.71	1.65
3300.0	9.25	38.11	7.59	2.54	4.79	0.54	26.09	12.18	1.72
3400.0	8.80	37.57	7.36	2.41	4.48	0.52	24.60	11.95	1.95
3500.0	8.36	36.86	7.11	2.28	4.09	0.51	24.50	11.50	1.77
3600.0	7.92	36.40	6.87	2.17	3.84	0.50	23.52	11.57	1.91
3700.0	7.47	35.76	6.65	2.07	3.55	0.49	24.14	11.12	2.03
3800.0	7.04	35.19	6.49	2.00	3.32	0.48	23.60	10.46	2.04
3900.0	6.66	34.41	6.35	1.93	3.02	0.47	22.34	10.29	2.42
4000.0	6.24	33.62	6.19	1.88	2.79	0.47	21.77	9.83	2.22

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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: Vd = 4.0V, Id = 51.96mA @ Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
700.0	24.57	38.61	8.51	12.36	2.19	1.01	29.86	19.28	0.42
800.0	24.29	38.12	12.58	14.32	2.36	0.96	31.05	19.94	0.28
900.0	23.76	37.82	17.08	15.60	2.52	0.95	31.60	20.08	0.35
1000.0	23.15	37.96	22.70	15.99	2.77	0.94	31.58	19.97	0.28
1100.0	22.52	37.82	31.95	15.54	2.92	0.94	32.02	19.98	0.26
1200.0	21.89	37.88	32.87	14.51	3.12	0.94	32.17	20.20	0.34
1300.0	21.26	37.74	26.12	13.32	3.24	0.94	32.21	19.75	0.34
1400.0	20.65	38.13	22.77	12.06	3.54	0.93	31.92	19.68	0.39
1500.0	20.03	37.86	20.33	10.87	3.58	0.92	31.64	19.36	0.39
1600.0	19.42	38.01	18.54	9.78	3.77	0.90	31.32	19.46	0.49
1700.0	18.82	38.18	17.26	8.81	3.97	0.88	31.59	19.38	0.46
1800.0	18.19	38.51	16.23	7.93	4.24	0.86	31.39	18.70	0.54
1900.0	17.47	38.67	15.24	7.06	4.44	0.83	30.40	18.61	0.58
2000.0	17.04	38.21	14.46	6.84	4.33	0.83	30.45	17.85	0.59
2100.0	16.53	38.95	13.76	6.11	4.71	0.80	29.88	17.29	0.56
2200.0	15.96	38.93	13.05	5.50	4.72	0.77	28.89	17.13	0.61
2300.0	15.39	38.83	12.43	5.02	4.70	0.74	28.12	16.58	0.66
2400.0	14.83	39.80	11.85	4.61	5.29	0.71	28.46	16.45	0.70
2500.0	14.26	39.94	11.30	4.23	5.40	0.68	27.37	15.36	0.72
2600.0	13.71	40.03	10.80	3.90	5.46	0.66	27.25	15.39	0.88
2700.0	13.14	40.01	10.36	3.64	5.50	0.64	26.75	15.18	0.98
2800.0	12.59	40.22	9.90	3.43	5.71	0.62	26.78	14.67	1.05
2900.0	12.04	39.85	9.44	3.24	5.51	0.60	26.80	14.07	0.98
3000.0	11.53	40.02	8.99	3.07	5.66	0.59	25.32	13.53	1.06
3100.0	11.03	39.76	8.61	2.92	5.52	0.58	24.85	13.47	0.92
3200.0	10.55	39.63	8.30	2.76	5.44	0.56	24.60	13.10	1.18
3300.0	10.09	39.12	8.00	2.56	5.03	0.54	25.22	12.61	1.17
3400.0	9.65	38.67	7.69	2.38	4.66	0.51	23.97	12.46	1.30
3500.0	9.23	38.18	7.38	2.24	4.32	0.50	23.90	11.95	1.27
3600.0	8.81	37.23	7.09	2.13	3.80	0.49	23.25	12.13	1.30
3700.0	8.36	36.64	6.85	2.02	3.50	0.47	23.99	11.76	1.29
3800.0	7.93	36.08	6.62	1.91	3.24	0.46	23.35	11.07	1.39
3900.0	7.55	35.22	6.39	1.83	2.87	0.45	22.26	11.05	1.72
4000.0	7.16	34.54	6.20	1.79	2.65	0.45	21.96	10.63	1.50

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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: Vd = 4.0V, Id = 52.33mA @ Temperature = 85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
700.0	23.88	37.98	9.95	13.09	2.31	0.99	28.81	18.76	0.85
800.0	23.55	37.66	15.48	15.19	2.51	0.95	29.65	19.44	0.65
900.0	22.95	37.52	23.18	16.16	2.70	0.94	30.04	19.57	0.69
1000.0	22.28	37.65	31.03	16.11	2.95	0.95	30.01	19.48	0.67
1100.0	21.60	37.73	24.61	15.43	3.17	0.95	30.59	19.52	0.66
1200.0	20.92	37.84	20.46	14.16	3.40	0.95	30.89	19.70	0.71
1300.0	20.25	37.86	18.06	12.77	3.58	0.95	30.79	19.28	0.73
1400.0	19.59	37.98	16.48	11.47	3.79	0.94	30.71	19.23	0.84
1500.0	18.95	38.16	15.37	10.38	4.03	0.93	30.88	18.92	0.84
1600.0	18.32	38.39	14.51	9.39	4.29	0.92	30.91	19.01	0.92
1700.0	17.68	38.29	13.72	8.46	4.37	0.90	30.74	18.84	0.97
1800.0	17.02	38.80	12.96	7.61	4.76	0.88	30.97	18.30	1.03
1900.0	16.28	39.30	12.30	6.86	5.21	0.85	30.75	18.18	1.10
2000.0	15.87	38.71	11.89	6.58	4.98	0.84	31.15	17.52	1.18
2100.0	15.32	39.01	11.48	5.96	5.20	0.81	31.18	17.07	1.16
2200.0	14.74	39.48	11.03	5.41	5.54	0.78	30.77	16.72	1.21
2300.0	14.15	39.69	10.64	4.96	5.74	0.75	30.07	16.18	1.29
2400.0	13.59	39.50	10.26	4.58	5.68	0.73	29.98	16.11	1.38
2500.0	13.03	39.39	9.90	4.27	5.67	0.71	29.63	15.17	1.47
2600.0	12.46	39.51	9.52	3.98	5.82	0.68	29.37	15.04	1.63
2700.0	11.87	39.38	9.13	3.72	5.80	0.66	28.60	14.90	1.74
2800.0	11.32	39.53	8.80	3.48	5.95	0.64	28.54	14.42	1.90
2900.0	10.80	39.49	8.57	3.30	6.00	0.62	28.70	13.73	1.91
3000.0	10.30	38.88	8.32	3.15	5.67	0.61	27.43	13.21	1.90
3100.0	9.77	38.83	8.01	2.99	5.70	0.59	26.56	13.15	1.90
3200.0	9.26	38.06	7.72	2.80	5.18	0.57	25.82	12.83	2.09
3300.0	8.79	37.70	7.50	2.63	4.94	0.55	26.89	12.29	2.17
3400.0	8.36	37.24	7.31	2.52	4.70	0.54	25.37	12.13	2.40
3500.0	7.90	36.45	7.12	2.43	4.34	0.53	25.27	11.58	2.34
3600.0	7.43	35.98	6.88	2.31	4.10	0.52	24.08	11.54	2.56
3700.0	6.97	35.11	6.66	2.19	3.67	0.51	24.58	11.14	2.52
3800.0	6.55	34.53	6.57	2.13	3.47	0.50	24.17	10.51	2.56
3900.0	6.16	34.02	6.48	2.09	3.34	0.49	22.68	10.31	3.01
4000.0	5.72	33.40	6.37	2.05	3.18	0.49	21.95	9.85	2.83