

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 = 119mA, Vd = 5V @Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
1200	34.62	49.14	7.20	7.77	1.77	0.15	28.75	16.49	1000	0.76
1300	34.24	47.94	7.99	9.04	1.81	0.17	32.39	17.40	1050	0.77
1400	33.73	46.82	8.87	10.52	1.85	0.20	34.52	18.02	1100	0.80
1500	33.16	45.80	9.82	12.15	1.89	0.22	35.39	18.34	1150	0.73
1600	32.53	44.89	10.93	13.86	1.94	0.23	35.63	18.96	1200	0.75
1700	31.88	44.06	12.27	15.43	1.97	0.24	35.45	19.54	1250	0.79
1710	31.83	43.95	12.40	15.60	1.97	0.24	35.36	19.37	1300	0.70
1720	31.76	43.88	12.57	15.77	1.97	0.24	35.29	19.26	1350	0.73
1750	31.56	43.63	13.08	16.18	1.98	0.24	35.32	19.67	1400	0.73
1780	31.38	43.41	13.57	16.46	1.98	0.24	35.27	19.63	1450	0.73
1800	31.25	43.25	13.89	16.68	1.99	0.25	35.25	19.55	1500	0.74
1820	31.13	43.10	14.29	16.92	1.99	0.25	35.24	19.88	1550	0.80
1850	30.94	42.88	14.91	17.22	2.00	0.25	35.14	19.57	1600	0.76
1880	30.75	42.67	15.61	17.27	2.00	0.25	35.26	20.05	1650	0.84
1900	30.63	42.53	16.03	17.19	2.00	0.25	35.26	19.83	1700	0.78
1920	30.51	42.38	16.51	17.17	2.00	0.25	35.18	19.91	1750	0.83
1950	30.33	42.16	17.35	17.21	2.00	0.25	35.10	19.92	1800	0.85
1990	30.09	41.89	18.60	16.96	2.00	0.25	35.13	20.12	1850	0.81
2000	30.03	41.83	18.89	16.83	2.00	0.25	35.17	20.25	1880	0.87
2020	29.91	41.68	19.59	16.61	2.00	0.25	35.12	20.05	1900	0.87
2050	29.74	41.48	20.62	16.38	2.00	0.26	35.10	20.20	1950	0.85
2080	29.57	41.29	21.97	16.12	2.00	0.26	35.09	20.18	2000	0.92
2100	29.45	41.16	22.82	15.83	1.99	0.26	35.11	20.26	2050	0.90
2120	29.34	41.03	23.67	15.54	1.99	0.26	35.12	20.36	2100	0.94
2150	29.18	40.88	24.66	15.23	1.99	0.26	35.10	20.30	2150	0.97
2180	29.01	40.67	25.15	14.90	1.98	0.27	35.12	20.33	2200	1.00
2200	28.90	40.53	24.95	14.64	1.97	0.27	35.16	20.45	2250	0.95
2250	28.63	40.26	23.06	14.06	1.97	0.28	35.18	20.32	2350	0.98
2280	28.46	40.09	21.53	13.74	1.96	0.28	35.17	20.65	2400	1.03
2300	28.36	40.01	20.44	13.50	1.96	0.28	35.14	20.62	2450	0.97
2350	28.07	39.72	17.98	13.00	1.94	0.29	35.17	20.82	2550	1.13
2380	27.91	39.57	16.65	12.81	1.94	0.29	35.22	20.38	2600	1.08
2400	27.80	39.48	15.78	12.61	1.93	0.29	35.17	20.78	2650	1.24
2500	27.20	39.05	12.24	11.96	1.90	0.30	35.06	20.73	2700	1.26
2600	26.53	38.72	9.40	11.59	1.86	0.31	34.91	20.72	2750	1.33
2700	25.73	38.56	7.09	11.47	1.82	0.31	34.56	20.68	2800	1.29
2800	24.75	38.61	5.22	11.74	1.79	0.30	34.11	20.55	2900	1.45
2900	23.58	38.85	3.75	12.23	1.75	0.29	33.56	20.23	3000	1.60



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Amplifier

ZX60-242GLN-S+

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 = 119mA, Vd = 5V @Temperature = -40degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
					K	Delta				
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
1200	35.61	48.93	6.97	6.87	1.42	0.14	25.65	16.21	1000	0.56
1300	35.28	47.71	7.79	7.99	1.48	0.17	28.69	17.13	1050	0.56
1400	34.78	46.63	8.78	9.26	1.55	0.21	32.11	17.78	1100	0.57
1500	34.19	45.66	9.86	10.63	1.62	0.24	34.42	18.11	1150	0.53
1600	33.53	44.72	11.08	12.12	1.68	0.26	35.79	18.83	1200	0.53
1700	32.85	43.87	12.63	13.49	1.73	0.27	36.36	19.50	1250	0.55
1710	32.79	43.80	12.79	13.63	1.73	0.27	36.33	19.28	1300	0.46
1720	32.72	43.71	12.98	13.76	1.74	0.27	36.33	19.19	1350	0.49
1750	32.51	43.45	13.56	14.09	1.75	0.27	36.54	19.68	1400	0.46
1780	32.32	43.22	14.07	14.37	1.75	0.28	36.56	19.61	1450	0.49
1800	32.19	43.09	14.46	14.60	1.77	0.28	36.62	19.53	1500	0.47
1820	32.05	42.95	14.90	14.81	1.77	0.28	36.63	19.92	1550	0.53
1850	31.86	42.70	15.56	15.10	1.78	0.28	36.56	19.55	1600	0.52
1880	31.64	42.48	16.32	15.21	1.79	0.28	36.72	20.09	1650	0.57
1900	31.51	42.34	16.78	15.20	1.79	0.28	36.76	19.83	1700	0.52
1920	31.38	42.21	17.30	15.24	1.79	0.28	36.68	19.94	1750	0.54
1950	31.18	42.01	18.19	15.29	1.80	0.28	36.62	19.96	1800	0.56
1990	30.92	41.75	19.42	15.20	1.81	0.28	36.75	20.19	1850	0.51
2000	30.86	41.67	19.70	15.15	1.81	0.29	36.73	20.31	1880	0.58
2020	30.73	41.53	20.41	15.06	1.81	0.29	36.61	20.05	1900	0.57
2050	30.54	41.33	21.33	14.95	1.81	0.29	36.53	20.25	1950	0.55
2080	30.35	41.15	22.54	14.87	1.81	0.29	36.52	20.20	2000	0.65
2100	30.23	41.00	23.13	14.75	1.81	0.29	36.54	20.30	2050	0.61
2120	30.11	40.88	23.61	14.59	1.81	0.29	36.53	20.41	2100	0.61
2150	29.94	40.70	24.07	14.41	1.81	0.30	36.48	20.32	2150	0.65
2180	29.76	40.52	23.97	14.23	1.81	0.30	36.49	20.37	2200	0.69
2200	29.65	40.38	23.61	14.09	1.80	0.30	36.52	20.51	2250	0.64
2220	29.54	40.26	22.98	13.93	1.80	0.30	36.51	20.70	2300	0.66
2250	29.37	40.10	21.79	13.72	1.80	0.31	36.48	20.32	2350	0.64
2280	29.20	39.94	20.46	13.52	1.79	0.31	36.44	20.70	2400	0.69
2300	29.09	39.81	19.54	13.37	1.79	0.31	36.37	20.65	2450	0.61
2350	28.79	39.54	17.49	12.98	1.78	0.32	36.37	20.86	2550	0.76
2380	28.62	39.40	16.20	12.78	1.78	0.32	36.35	20.42	2600	0.71
2400	28.50	39.30	15.41	12.58	1.77	0.33	36.27	20.84	2650	0.81
2500	27.88	38.86	12.09	11.80	1.75	0.34	36.03	20.77	2700	0.83
2600	27.20	38.49	9.42	11.29	1.71	0.35	35.76	20.80	2750	0.91
2700	26.41	38.30	7.17	10.95	1.67	0.35	35.30	20.80	2800	0.87
2800	25.46	38.28	5.31	11.10	1.63	0.34	34.72	20.64	2900	0.96
2900	24.30	38.51	3.80	11.56	1.59	0.33	34.09	20.28	3000	1.10



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Amplifier

ZX60-242GLN-S+

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 = 117mA, Vd = 5V @Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP3 Output	1dB Comp. Output	FREQ	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Delta	(dBm)	(dBm)	(MHz)	(dB)
1200	33.75	49.16	7.30	8.60	2.06	0.16	32.36	16.64	1000	0.96
1300	33.34	47.97	8.03	10.05	2.09	0.18	34.54	17.55	1050	0.96
1400	32.83	46.89	8.81	11.73	2.12	0.19	34.90	18.10	1100	0.99
1500	32.27	45.87	9.67	13.63	2.14	0.21	34.73	18.37	1150	0.93
1600	31.66	44.97	10.67	15.61	2.16	0.21	34.48	18.92	1200	0.97
1700	31.05	44.12	11.88	17.33	2.17	0.22	34.18	19.44	1250	0.96
1710	30.99	44.07	12.02	17.51	2.18	0.22	34.10	19.30	1300	0.90
1720	30.93	43.98	12.17	17.68	2.18	0.22	34.02	19.17	1350	0.93
1750	30.75	43.73	12.62	18.06	2.18	0.22	34.05	19.51	1400	0.94
1780	30.58	43.48	13.05	18.29	2.17	0.22	34.00	19.51	1450	0.91
1800	30.45	43.35	13.34	18.47	2.18	0.22	34.02	19.42	1500	0.97
1820	30.34	43.20	13.68	18.66	2.18	0.22	34.01	19.70	1550	1.00
1850	30.17	42.97	14.23	18.84	2.18	0.22	33.97	19.45	1600	1.00
1880	29.99	42.75	14.85	18.74	2.18	0.22	33.99	19.86	1650	1.06
1900	29.88	42.61	15.25	18.57	2.18	0.22	33.99	19.69	1700	0.99
1920	29.76	42.45	15.68	18.47	2.17	0.22	33.99	19.73	1750	1.10
1950	29.59	42.26	16.42	18.38	2.18	0.23	33.99	19.76	1800	1.06
1990	29.38	41.98	17.58	17.93	2.17	0.23	34.04	19.92	1850	1.05
2000	29.32	41.91	17.85	17.77	2.17	0.23	34.08	20.04	1880	1.13
2020	29.21	41.76	18.49	17.48	2.16	0.23	34.06	19.90	1900	1.11
2050	29.06	41.58	19.56	17.15	2.16	0.23	34.07	20.01	1950	1.07
2080	28.90	41.36	20.94	16.78	2.15	0.23	34.09	20.00	2000	1.19
2100	28.80	41.26	22.00	16.45	2.15	0.24	34.10	20.07	2050	1.14
2120	28.70	41.11	23.05	16.11	2.14	0.24	34.14	20.16	2100	1.16
2150	28.55	40.92	24.72	15.74	2.14	0.24	34.16	20.13	2150	1.20
2180	28.40	40.73	26.68	15.37	2.13	0.24	34.20	20.14	2200	1.26
2200	28.30	40.61	27.59	15.10	2.12	0.25	34.26	20.24	2250	1.19
2220	28.20	40.48	27.85	14.81	2.11	0.25	34.28	20.47	2300	1.25
2250	28.05	40.33	26.62	14.47	2.11	0.25	34.33	20.11	2350	1.26
2280	27.89	40.13	24.45	14.16	2.09	0.26	34.34	20.44	2400	1.28
2300	27.79	40.02	23.03	13.93	2.09	0.26	34.34	20.43	2450	1.28
2350	27.52	39.75	19.75	13.40	2.07	0.26	34.42	20.61	2550	1.44
2380	27.37	39.62	17.98	13.19	2.07	0.27	34.49	20.20	2600	1.42
2400	27.27	39.51	16.88	12.99	2.05	0.27	34.46	20.56	2650	1.53
2500	26.70	39.08	12.70	12.36	2.01	0.28	34.45	20.54	2700	1.56
2600	26.05	38.76	9.59	12.03	1.97	0.29	34.41	20.53	2750	1.65
2700	25.22	38.64	7.10	11.98	1.93	0.29	34.16	20.49	2800	1.64
2800	24.21	38.76	5.16	12.22	1.90	0.28	33.78	20.39	2900	1.78
2900	23.01	39.05	3.69	12.65	1.87	0.27	33.30	20.09	3000	2.02



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