GALI-3 Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

TYPE: MMIC Amplifier
MODEL: GALI-3 Reference Data: RDF-970
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 35mA, Vd = 3.56V @Temperature = +25degC

Definitions:
Input Return Loss=-S11(dB)
Gain(Power Gain)=S21(dB)
Reverse Isolation=-S12(dB)
Output Return Loss=-S22(dB)

FREQ	S11		S21		S12		S22		Stability		IP-3 Output	1 dB Compression Output	Noise Figure
(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K	Delta	(dBm)	(dBm)	(dB)
50	-29.03	8.01	23.22	173.18	-25.63	-6.05	-46.97	107.30	1.04	0.76	27.39	13.27	2.54
100	-26.80	2.86	23.23	166.69	-25.91	-7.80	-40.78	108.53	1.05	0.73	27.52	13.21	2.67
150	-27.91	-1.06	23.16	160.58	-25.97	-9.73	-48.10	141.18	1.05	0.72	28.02	13.28	2.60
200	-26.97	2.65	23.11	154.29	-25.96	-13.42	-41.53	142.00	1.05	0.72	27.70	13.29	2.45
250	-26.48	0.33	23.06	147.81	-25.91	-16.26	-42.06	138.63	1.05	0.72	26.57	13.24	2.56
300	-26.13	-2.24	22.97	141.78	-25.78	-19.33	-40.22	133.15	1.05	0.72	27.58	13.13	2.77
350	-26.14	-3.04	22.90	135.54	-25.97	-22.54	-38.68	126.97	1.06	0.70	27.24	13.11	2.68
400	-25.99	-5.27	22.81	129.43	-25.86	-25.63	-37.35	118.31	1.06	0.70	27.04	13.10	2.56
450	-26.12	-6.79	22.71	123.37	-25.89	-28.72	-35.90	107.12	1.07	0.69	26.61	12.96	2.60
500	-25.33	-9.00	22.61	117.52	-25.81	-31.83	-34.91	105.01	1.07	0.69	26.88	13.08	2.76
550	-25.00	-11.52	22.51	111.56	-25.77	-35.43	-34.05	95.48	1.07	0.69	26.74	13.03	2.70
600	-24.60	-15.05	22.42	105.61	-25.70	-39.10	-33.05	90.69	1.07	0.68	26.63	13.04	2.53
650	-24.21	-17.90	22.31	99.70	-25.67	-42.51	-32.09	83.77	1.07	0.68	26.47	13.04	2.61
700	-23.76	-19.75	22.21	93.90	-25.68	-45.47	-31.36	77.16	1.08	0.67	26.85	12.98	2.63
750	-23.58	-24.06	22.09	88.07	-25.64	-49.17	-30.34	70.72	1.08	0.66	26.87	12.87	2.62
800	-23.19	-27.42	21.97	82.30	-25.64	-52.51	-29.98	62.88	1.08	0.65	26.72	12.76	2.54
850	-22.90	-32.00	21.86	76.59	-25.56	-56.02	-29.47	56.20	1.08	0.65	26.67	12.77	2.53
900	-22.67	-35.32	21.75	70.95	-25.55	-58.96	-28.93	49.50	1.09	0.64	26.81	12.66	2.69
940	-22.44	-38.25	21.65	66.52	-25.48	-61.79	-28.42	41.80	1.09	0.64	26.89	12.56	2.69
1000	-22.05	-44.85	21.50	59.73	-25.49	-66.10	-27.97	35.52	1.10	0.63	26.75	12.60	2.55
1100	-21.50	-55.03	21.29	48.67	-25.37	-72.87	-27.56	21.13	1.10	0.62	26.58	12.58	2.71
1200	-21.06	-65.84	21.04	37.65	-25.25	-79.94	-27.09	8.96	1.11	0.61	26.51	12.60	2.60
1300	-20.78	-74.56	20.80	26.82	-25.26	-87.00	-26.44	-3.30	1.12	0.59	26.55	12.58	2.71
1400	-20.45	-87.99	20.57	16.00	-25.22	-94.09	-26.14	-16.90	1.13	0.58	26.25	12.66	2.71
1500	-20.13	-98.50	20.34	5.35	-25.14	-100.87	-25.81	-28.99	1.14	0.57	26.37	12.40	2.83
1600	-19.64	-110.73	20.10	-5.30	-25.10	-108.39	-25.69	-42.81	1.15	0.56	26.81	12.46	2.73
1700	-19.31	-121.29	19.85	-15.77	-25.03	-115.41	-25.60	-55.27	1.17	0.55	27.23	12.33	2.74
1800	-19.15	-132.67	19.62	-26.25	-24.92	-122.94	-25.37	-69.08	1.17	0.54	26.83	12.46	2.79
1900	-18.76	-144.80	19.40	-36.56	-24.92	-129.70	-25.30	-84.32	1.19	0.53	26.23	12.42	2.75
2000	-18.46	-157.01	19.18	-46.89	-24.86	-137.41	-25.18	-98.25	1.20	0.52	26.27	12.33	2.78
2100	-18.10	-168.65	18.94	-57.13	-24.78	-144.81	-24.95	-110.67	1.21	0.51	25.76	12.42	2.75
2200	-17.83	-178.83	18.73	-67.27	-24.77	-152.42	-24.68	-125.23	1.23	0.50	25.90	12.16	2.75
2300	-17.52	170.08	18.50	-77.31	-24.73	-159.78	-24.14	-138.53	1.25	0.49	25.53	12.04	2.75
2400	-17.18	158.53	18.28	-87.40	-24.64	-167.39	-23.78	-152.32	1.26	0.48	25.26	11.77	2.81
2500	-16.74	147.06	18.08	-97.43	-24.61	-174.04	-23.35	-166.17	1.27	0.47	25.13	11.72	2.72
2600	-16.38	138.12	17.85	-107.23	-24.69	178.07	-22.79	-178.93	1.30	0.46	24.67	11.44	2.81
2700	-16.34	126.95	17.67	-117.22	-24.56	170.67	-22.77	169.15	1.31	0.46	24.60	11.23	2.78
2800	-16.06	117.11	17.46	-126.98	-24.55	162.88	-22.11	157.50	1.32	0.45	24.40	11.06	2.83
2900	-15.75	106.17	17.28	-136.88	-24.48	155.62	-21.66	146.23	1.33	0.44	24.23	10.93	2.79
3000	-15.53	95.87	17.08	-146.72	-24.53	147.57	-21.23	135.64	1.36	0.43	24.10	10.75	2.77

TYPE: MMIC Amplifier
MODEL: GALI-3 Reference Data: RDF-970
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 28mA, Vd = 3.52V @Temperature = +25degC

Definitions:
Input Return Loss=-S11(dB)
Gain(Power Gain)=S21(dB)
Reverse Isolation=-S12(dB)
Output Return Loss=-S22(dB)

FREQ	S11		S21		S12		S22		Stability		IP-3 Output	1 dB Compression Output	Noise Figure
(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K	Delta	(dBm)	(dBm)	(dB)
50	-22.93	0.16	22.80	173.20	-26.08	0.12	-28.37	-1.65	1.07	0.69	24.59	11.53	2.49
100	-21.47	-3.68	22.81	166.80	-25.65	-7.63	-29.03	-3.13	1.05	0.72	24.72	11.36	2.59
150	-22.28	-8.40	22.73	160.70	-25.51	-10.04	-28.85	-15.67	1.05	0.73	25.14	11.57	2.52
200	-21.98	-10.04	22.70	154.46	-25.59	-12.47	-29.39	-21.03	1.05	0.72	24.90	11.56	2.42
250	-21.97	-14.37	22.65	148.05	-25.62	-15.88	-30.11	-25.47	1.06	0.71	23.86	11.39	2.55
300	-21.64	-17.79	22.57	142.02	-25.54	-19.85	-29.96	-31.72	1.06	0.71	24.83	11.41	2.67
350	-21.83	-21.10	22.49	135.82	-25.53	-23.24	-30.85	-34.86	1.06	0.71	24.49	11.40	2.63
400	-21.94	-24.61	22.41	129.75	-25.52	-26.69	-31.13	-38.91	1.06	0.70	24.36	11.43	2.54
450	-22.10	-27.27	22.31	123.78	-25.43	-29.79	-32.48	-38.83	1.06	0.70	23.91	11.17	2.57
500	-21.97	-29.48	22.22	117.85	-25.46	-33.10	-33.04	-44.06	1.07	0.69	24.23	11.40	2.70
550	-21.68	-33.59	22.11	111.93	-25.45	-36.50	-33.14	-44.01	1.07	0.68	24.09	11.34	2.65
600	-21.69	-36.63	22.04	105.97	-25.36	-39.59	-34.47	-42.49	1.07	0.68	24.06	11.28	2.51
650	-21.53	-39.63	21.94	100.08	-25.35	-43.01	-35.11	-42.01	1.07	0.68	23.86	11.38	2.57
700	-21.43	-41.62	21.83	94.32	-25.32	-46.58	-36.14	-34.90	1.08	0.67	24.29	11.26	2.55
750	-21.41	-45.90	21.73	88.49	-25.30	-49.98	-36.07	-30.35	1.08	0.66	24.33	11.26	2.59
800	-21.22	-48.95	21.61	82.73	-25.27	-53.15	-35.82	-28.43	1.08	0.66	24.21	10.95	2.50
850	-21.15	-52.11	21.52	77.03	-25.25	-56.87	-35.63	-22.59	1.09	0.65	24.17	11.17	2.51
900	-21.02	-56.52	21.39	71.44	-25.20	-60.23	-34.73	-21.30	1.09	0.64	24.32	10.98	2.64
940	-21.00	-58.54	21.30	66.93	-25.19	-63.11	-33.60	-22.03	1.10	0.64	24.51	10.77	2.62
1000	-20.70	-64.85	21.15	60.17	-25.19	-66.96	-33.18	-22.84	1.10	0.63	24.36	10.92	2.52
1100	-20.32	-73.59	20.96	49.10	-25.09	-74.31	-31.84	-32.42	1.11	0.62	24.26	11.06	2.66
1200	-20.04	-83.20	20.70	38.08	-25.05	-81.21	-30.82	-36.06	1.12	0.61	24.28	11.03	2.56
1300	-19.85	-91.99	20.48	27.21	-25.01	-88.27	-29.81	-42.77	1.13	0.59	24.44	10.98	2.66
1400	-19.46	-104.14	20.26	16.39	-24.94	-95.45	-28.99	-54.55	1.14	0.58	24.19	11.07	2.67
1500	-19.27	-113.41	20.03	5.66	-24.86	-102.60	-28.26	-62.97	1.15	0.57	24.33	10.84	2.74
1600	-18.86	-124.46	19.82	-5.01	-24.85	-110.13	-27.58	-75.92	1.16	0.56	24.84	10.94	2.70
1700	-18.53	-134.35	19.56	-15.52	-24.82	-116.98	-27.24	-85.77	1.17	0.55	25.36	10.84	2.70
1800	-18.38	-145.34	19.36	-26.02	-24.72	-124.50	-26.67	-99.46	1.18	0.54	25.28	11.02	2.73
1900	-18.04	-156.55	19.13	-36.33	-24.64	-131.99	-25.97	-112.36	1.19	0.53	24.64	10.94	2.72
2000	-17.72	-167.94	18.91	-46.68	-24.66	-138.81	-25.55	-124.64	1.21	0.52	24.81	10.87	2.72
2100	-17.37	-179.05	18.68	-57.03	-24.56	-146.94	-25.06	-137.00	1.22	0.51	24.38	10.95	2.72
2200	-17.13	171.20	18.47	-67.20	-24.61	-154.44	-24.51	-148.83	1.24	0.50	24.57	10.63	2.67
2300	-16.87	160.89	18.24	-77.21	-24.57	-161.36	-23.91	-159.29	1.26	0.49	24.41	10.65	2.70
2400	-16.50	149.56	18.04	-87.40	-24.55	-168.69	-23.30	-171.99	1.27	0.48	24.25	10.43	2.75
2500	-16.13	138.78	17.83	-97.46	-24.50	-176.25	-22.71	176.24	1.29	0.47	24.27	10.56	2.69
2600	-15.84	130.29	17.59	-107.24	-24.51	175.74	-22.06	165.75	1.31	0.46	23.87	10.50	2.72
2700	-15.78	118.99	17.42	-117.27	-24.44	168.30	-21.92	154.04	1.32	0.46	23.88	10.36	2.76
2800	-15.51	109.44	17.22	-127.12	-24.50	160.72	-21.26	144.48	1.34	0.44	23.73	10.26	2.74
2900	-15.23	99.08	17.03	-137.03	-24.41	153.51	-20.77	134.48	1.35	0.44	23.52	10.11	2.76
3000	-15.02	88.67	16.85	-146.86	-24.36	145.21	-20.33	124.71	1.36	0.44	23.53	9.97	2.70

TYPE: MMIC Amplifier
MODEL: GALI-3 Reference Data: RDF-970
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 42mA, Vd = 3.59V @Temperature = +25degC

Definitions:
Input Return Loss=-S11(dB)
Gain(Power Gain)=S21(dB)
Reverse Isolation=-S12(dB)
Output Return Loss=-S22(dB)

FREQ	S11		S21		S12		S22		Stability		IP-3 Output	1 dB Compression Output	Noise Figure
(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K	Delta	(dBm)	(dBm)	(dB)
50	-39.25	45.46	23.50	173.12	-26.28	-5.55	-31.09	160.41	1.05	0.73	29.80	14.30	2.56
100	-32.42	21.18	23.50	166.68	-26.29	-6.94	-29.95	156.13	1.05	0.73	29.94	14.30	2.74
150	-34.20	22.94	23.42	160.51	-26.30	-8.34	-30.15	160.62	1.05	0.72	30.56	14.29	2.65
200	-31.58	31.70	23.37	154.16	-26.25	-13.21	-29.39	153.35	1.05	0.72	30.05	14.25	2.47
250	-30.58	27.26	23.32	147.71	-26.25	-16.01	-29.25	147.84	1.06	0.71	28.82	14.27	2.61
300	-29.71	23.52	23.23	141.62	-26.12	-19.32	-29.33	141.18	1.05	0.72	29.76	14.16	2.82
350	-29.12	22.85	23.15	135.43	-26.16	-22.22	-28.51	134.95	1.06	0.71	29.40	14.13	2.73
400	-28.57	20.42	23.07	129.31	-26.09	-25.10	-28.16	128.52	1.06	0.71	29.13	14.04	2.58
450	-28.11	20.16	22.95	123.25	-26.07	-28.39	-27.59	120.86	1.06	0.70	28.72	14.02	2.64
500	-27.02	16.30	22.85	117.28	-26.03	-31.65	-27.58	115.24	1.06	0.69	28.81	13.98	2.83
550	-26.32	13.13	22.75	111.35	-26.03	-35.09	-27.22	108.30	1.07	0.68	28.59	14.01	2.77
600	-25.81	7.62	22.66	105.40	-26.00	-37.94	-26.65	101.48	1.07	0.68	28.42	14.02	2.56
650	-25.12	3.45	22.54	99.54	-25.95	-42.01	-26.40	95.32	1.07	0.67	28.27	13.94	2.64
700	-24.44	0.44	22.43	93.76	-25.86	-45.10	-25.91	88.91	1.07	0.67	28.57	13.89	2.69
750	-24.20	-4.38	22.32	87.90	-25.88	-48.14	-25.57	81.72	1.08	0.66	28.47	13.73	2.71
800	-23.71	-8.62	22.20	82.17	-25.84	-51.90	-25.32	74.96	1.08	0.65	28.25	13.69	2.57
850	-23.39	-13.97	22.08	76.44	-25.79	-54.74	-25.03	68.89	1.08	0.65	28.21	13.58	2.57
900	-23.10	-18.48	21.96	70.84	-25.75	-58.52	-24.98	61.83	1.09	0.64	28.27	13.49	2.75
940	-22.71	-22.39	21.86	66.35	-25.73	-61.08	-24.89	54.72	1.09	0.64	28.20	13.43	2.77
1000	-22.33	-29.36	21.72	59.57	-25.68	-64.89	-24.66	47.43	1.09	0.63	27.98	13.45	2.58
1100	-21.74	-40.98	21.50	48.55	-25.59	-71.76	-24.41	33.95	1.10	0.62	27.76	13.27	2.79
1200	-21.30	-52.43	21.24	37.54	-25.55	-79.05	-24.24	21.80	1.11	0.60	27.56	13.30	2.65
1300	-20.91	-62.28	21.00	26.75	-25.46	-85.85	-24.01	9.19	1.12	0.59	27.45	13.35	2.80
1400	-20.68	-76.05	20.77	15.98	-25.38	-93.00	-23.82	-3.34	1.13	0.58	27.15	13.43	2.75
1500	-20.32	-87.04	20.52	5.26	-25.28	-100.19	-23.80	-15.86	1.14	0.57	27.28	13.10	2.86
1600	-19.89	-100.24	20.30	-5.30	-25.27	-107.67	-23.78	-28.65	1.15	0.56	27.48	13.07	2.80
1700	-19.50	-111.52	20.04	-15.79	-25.13	-114.30	-24.03	-41.19	1.16	0.55	27.57	12.94	2.80
1800	-19.41	-123.16	19.82	-26.20	-25.05	-121.62	-24.02	-55.05	1.17	0.54	27.02	13.01	2.84
1900	-19.08	-136.00	19.59	-36.46	-25.05	-128.95	-24.12	-68.83	1.18	0.53	26.55	13.04	2.82
2000	-18.79	-148.81	19.37	-46.78	-24.99	-136.22	-24.30	-83.59	1.20	0.52	26.53	12.91	2.83
2100	-18.42	-160.60	19.14	-57.00	-24.94	-143.56	-24.21	-96.08	1.21	0.51	25.99	13.01	2.81
2200	-18.12	-171.36	18.92	-67.12	-24.91	-150.82	-24.19	-110.42	1.22	0.50	26.07	12.68	2.80
2300	-17.84	177.09	18.68	-77.09	-24.82	-158.54	-23.94	-124.88	1.24	0.49	25.62	12.59	2.81
2400	-17.50	165.53	18.47	-87.22	-24.83	-166.14	-23.78	-140.09	1.26	0.48	25.39	12.28	2.91
2500	-17.06	153.61	18.27	-97.16	-24.70	-173.28	-23.45	-153.85	1.26	0.48	25.19	12.14	2.79
2600	-16.70	144.20	18.03	-106.95	-24.78	179.59	-23.03	-168.29	1.29	0.46	24.73	11.84	2.88
2700	-16.63	132.99	17.85	-116.97	-24.65	171.86	-23.14	179.15	1.30	0.46	24.67	11.56	2.84
2800	-16.37	122.85	17.63	-126.68	-24.65	164.14	-22.55	167.09	1.32	0.45	24.35	11.39	2.90
2900	-16.03	111.66	17.46	-136.57	-24.61	156.83	-22.08	154.64	1.33	0.44	24.28	11.27	2.84
3000	-15.80	101.17	17.26	-146.32	-24.54	149.20	-21.77	143.61	1.34	0.44	24.09	11.02	2.86

TYPE: MMIC Amplifier
MODEL: GALI-3 Reference Data: RDF-970
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 35mA, Vd = 3.73V @Temperature = -45degC

Definitions:
Input Return Loss=-S11(dB)
Gain(Power Gain)=S21(dB)
Reverse Isolation=-S12(dB)
Output Return Loss=-S22(dB)

FREQ	S11		S21		S12		S22		Stability		IP-3 Output	1 dB Compression Output	Noise Figure
(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K	Delta	(dBm)	(dBm)	(dB)
50	-36.47	14.41	23.55	173.10	-25.81	-3.16	-31.40	159.18	1.03	0.77	28.00	13.77	1.99
100	-30.53	10.71	23.56	166.71	-26.37	-4.23	-31.38	155.50	1.05	0.72	28.11	13.65	2.13
150	-31.43	6.60	23.49	160.52	-26.24	-8.66	-32.43	162.76	1.05	0.73	28.54	13.79	2.05
200	-29.78	11.35	23.45	154.17	-26.37	-12.82	-31.45	151.13	1.05	0.71	28.26	13.77	1.92
250	-29.74	12.78	23.39	147.71	-26.27	-16.56	-30.97	143.94	1.05	0.72	27.24	13.74	2.01
300	-29.30	10.97	23.32	141.56	-26.28	-19.02	-30.11	139.23	1.06	0.71	28.24	13.69	2.23
350	-29.13	11.94	23.24	135.35	-26.13	-22.84	-29.27	130.49	1.05	0.72	27.92	13.64	2.14
400	-28.72	10.61	23.16	129.18	-26.02	-25.83	-28.97	123.20	1.05	0.72	27.78	13.68	2.01
450	-28.42	11.03	23.05	123.12	-26.07	-29.18	-28.45	115.50	1.06	0.70	27.35	13.57	2.06
500	-27.26	8.05	22.96	117.12	-26.04	-32.70	-28.04	111.66	1.06	0.70	27.67	13.65	2.19
550	-26.60	3.63	22.87	111.12	-26.00	-35.95	-27.71	104.15	1.06	0.70	27.50	13.54	2.12
600	-26.14	-0.02	22.78	105.10	-25.96	-39.45	-27.19	96.49	1.06	0.69	27.47	13.59	1.98
650	-25.52	-3.16	22.66	99.20	-25.84	-42.67	-26.94	89.73	1.06	0.69	27.28	13.63	2.04
700	-24.97	-5.92	22.56	93.40	-25.86	-46.40	-26.28	83.39	1.07	0.68	27.77	13.51	2.06
750	-24.63	-9.25	22.46	87.45	-25.86	-49.80	-25.69	78.11	1.07	0.67	27.74	13.48	2.06
800	-24.14	-12.81	22.34	81.70	-25.81	-53.07	-25.69	71.43	1.07	0.67	27.62	13.31	1.96
850	-23.72	-17.43	22.24	75.95	-25.79	-56.15	-25.30	64.03	1.08	0.66	27.57	13.39	1.97
900	-23.53	-21.39	22.11	70.25	-25.75	-60.03	-25.11	56.30	1.08	0.65	27.75	13.25	2.12
940	-23.33	-25.07	22.03	65.72	-25.70	-62.92	-24.73	49.04	1.08	0.65	27.89	13.15	2.10
1000	-22.95	-32.17	21.88	58.88	-25.64	-67.24	-24.40	41.88	1.08	0.64	27.76	13.20	1.97
1100	-22.50	-43.26	21.68	47.71	-25.54	-73.94	-23.95	28.73	1.09	0.64	27.61	13.23	2.12
1200	-22.11	-53.91	21.42	36.54	-25.48	-81.30	-23.63	16.99	1.10	0.62	27.57	13.20	2.01
1300	-21.68	-64.61	21.18	25.65	-25.38	-88.53	-23.28	3.80	1.10	0.61	27.71	13.22	2.15
1400	-21.37	-78.33	20.98	14.72	-25.29	-95.62	-23.24	-7.86	1.11	0.60	27.45	13.26	2.09
1500	-20.89	-89.38	20.74	3.90	-25.25	-102.66	-23.41	-20.50	1.12	0.59	27.63	13.10	2.20
1600	-20.45	-101.69	20.52	-6.79	-25.16	-110.00	-23.18	-34.20	1.13	0.58	28.07	13.14	2.11
1700	-20.21	-112.47	20.28	-17.48	-25.10	-117.60	-23.18	-45.01	1.14	0.57	28.48	13.06	2.13
1800	-20.21	-125.02	20.08	-28.07	-25.05	-125.06	-23.12	-58.74	1.15	0.56	28.23	13.19	2.19
1900	-19.82	-138.11	19.84	-38.50	-24.99	-132.23	-23.05	-72.65	1.16	0.55	27.58	13.18	2.15
2000	-19.40	-151.16	19.63	-48.91	-24.93	-139.48	-23.42	-87.05	1.17	0.54	27.70	13.10	2.14
2100	-19.09	-162.93	19.40	-59.44	-24.89	-147.10	-23.18	-99.32	1.19	0.53	27.15	13.15	2.12
2200	-18.75	-173.73	19.20	-69.65	-24.83	-155.10	-23.36	-114.26	1.20	0.52	27.38	12.96	2.11
2300	-18.54	174.23	18.97	-79.78	-24.70	-162.55	-23.01	-128.23	1.20	0.51	26.98	12.87	2.13
2400	-18.26	160.83	18.78	-90.08	-24.68	-170.60	-22.87	-141.98	1.22	0.51	26.80	12.66	2.17
2500	-17.68	148.64	18.56	-100.29	-24.59	-177.87	-22.32	-156.83	1.23	0.50	26.74	12.66	2.11
2600	-17.02	139.69	18.33	-110.09	-24.66	174.96	-21.85	-172.06	1.25	0.48	26.23	12.47	2.15
2700	-16.99	127.64	18.17	-120.22	-24.56	167.31	-22.12	174.72	1.26	0.48	26.24	12.32	2.16
2800	-16.87	119.44	17.93	-130.34	-24.57	158.80	-21.48	166.07	1.28	0.47	25.98	12.15	2.19
2900	-16.46	106.63	17.80	-140.20	-24.46	151.74	-21.21	150.88	1.28	0.47	25.89	12.03	2.14
3000	-16.28	95.63	17.61	-150.23	-24.39	143.73	-20.94	140.47	1.29	0.46	25.75	11.86	2.11

TYPE: MMIC Amplifier
MODEL: GALI-3 Reference Data: RDF-970
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 28mA, Vd = 3.70V @Temperature = -45degC

Definitions:
Input Return Loss=-S11(dB)
Gain(Power Gain)=S21(dB)
Reverse Isolation=-S12(dB)
Output Return Loss=-S22(dB)

FREQ	S11		S21		S12		S22		Stability		IP-3 Output	1 dB Compression Output	Noise Figure
(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K	Delta	(dBm)	(dBm)	(dB)
50	-25.87	-0.24	23.17	173.16	-25.51	-6.19	-39.51	35.69	1.04	0.76	24.98	12.05	1.95
100	-24.26	-3.18	23.19	166.79	-25.82	-6.32	-38.69	16.01	1.04	0.74	25.09	11.70	2.07
150	-24.56	-7.48	23.13	160.62	-25.96	-10.56	-39.24	-18.62	1.05	0.72	25.49	11.94	2.01
200	-24.22	-5.25	23.09	154.31	-25.90	-12.81	-40.61	-6.38	1.05	0.72	25.22	11.96	1.91
250	-24.06	-9.87	23.03	147.90	-25.74	-16.47	-41.88	-3.91	1.05	0.73	24.31	11.81	2.00
300	-24.26	-13.06	22.95	141.83	-25.84	-20.83	-43.23	0.51	1.05	0.72	25.25	11.82	2.19
350	-24.37	-15.69	22.88	135.59	-25.74	-23.09	-45.97	29.32	1.05	0.72	24.93	11.74	2.09
400	-24.75	-17.81	22.82	129.43	-25.78	-26.53	-45.08	49.25	1.06	0.71	24.84	11.84	2.01
450	-24.80	-20.05	22.72	123.37	-25.68	-29.82	-41.60	61.82	1.06	0.71	24.42	11.59	2.03
500	-24.35	-20.85	22.63	117.39	-25.70	-33.52	-40.73	66.99	1.06	0.70	24.79	11.82	2.14
550	-23.95	-24.50	22.52	111.47	-25.65	-36.35	-40.40	53.55	1.06	0.70	24.63	11.68	2.10
600	-23.81	-27.75	22.44	105.50	-25.58	-40.38	-38.09	54.54	1.06	0.70	24.64	11.75	1.98
650	-23.65	-30.14	22.35	99.56	-25.55	-43.74	-36.02	54.15	1.06	0.69	24.43	11.87	2.00
700	-23.32	-32.16	22.24	93.71	-25.57	-46.90	-33.85	56.78	1.07	0.68	24.88	11.59	2.01
750	-23.25	-35.87	22.14	87.84	-25.55	-50.38	-32.97	51.86	1.07	0.67	24.91	11.67	1.99
800	-23.05	-38.12	22.02	82.01	-25.52	-53.97	-32.55	46.23	1.08	0.67	24.81	11.29	1.95
850	-22.80	-40.66	21.93	76.27	-25.50	-57.75	-31.19	42.46	1.08	0.66	24.76	11.59	1.95
900	-22.75	-44.88	21.82	70.57	-25.46	-60.86	-30.51	33.37	1.08	0.66	24.93	11.40	2.06
940	-22.65	-47.38	21.74	66.08	-25.38	-63.73	-29.48	26.95	1.08	0.66	25.16	11.16	2.04
1000	-22.35	-54.80	21.59	59.22	-25.30	-68.21	-29.07	18.52	1.08	0.65	25.03	11.21	1.95
1100	-22.02	-63.89	21.37	48.10	-25.29	-75.15	-27.87	7.74	1.09	0.63	24.94	11.44	2.09
1200	-21.72	-73.03	21.16	36.86	-25.22	-82.51	-27.04	-2.02	1.10	0.62	24.99	11.48	1.97
1300	-21.35	-83.45	20.92	25.94	-25.12	-89.71	-26.33	-15.13	1.11	0.61	25.22	11.44	2.09
1400	-20.95	-95.59	20.70	15.01	-25.09	-96.69	-26.04	-25.92	1.12	0.60	25.01	11.47	2.06
1500	-20.54	-105.07	20.49	4.15	-25.03	-103.95	-25.94	-38.89	1.13	0.59	25.19	11.27	2.16
1600	-20.13	-115.99	20.26	-6.58	-24.98	-111.48	-25.31	-52.15	1.14	0.58	25.69	11.41	2.09
1700	-19.91	-126.50	20.04	-17.31	-24.88	-118.66	-25.18	-63.04	1.14	0.57	26.12	11.31	2.08
1800	-19.82	-139.09	19.82	-27.89	-24.84	-126.50	-24.81	-77.17	1.16	0.56	26.16	11.54	2.15
1900	-19.42	-150.54	19.60	-38.35	-24.77	-133.77	-24.50	-90.98	1.17	0.55	25.54	11.45	2.11
2000	-19.01	-162.93	19.41	-48.83	-24.73	-140.87	-24.47	-105.59	1.18	0.54	25.77	11.40	2.10
2100	-18.68	-174.10	19.16	-59.38	-24.66	-148.96	-24.18	-117.84	1.19	0.53	25.33	11.40	2.09
2200	-18.34	175.96	18.97	-69.59	-24.66	-156.28	-24.00	-132.11	1.20	0.52	25.64	11.21	2.04
2300	-18.09	164.16	18.76	-79.78	-24.58	-164.30	-23.43	-144.45	1.21	0.51	25.46	11.16	2.09
2400	-17.78	151.17	18.55	-90.12	-24.54	-171.89	-23.01	-158.53	1.23	0.50	25.38	11.03	2.12
2500	-17.29	139.89	18.35	-100.30	-24.55	-179.25	-22.35	-171.75	1.25	0.49	25.54	11.19	2.08
2600	-16.66	131.62	18.12	-110.14	-24.50	173.24	-21.63	175.19	1.26	0.49	25.15	11.20	2.09
2700	-16.58	119.61	17.95	-120.31	-24.48	165.58	-21.67	161.39	1.27	0.48	25.29	11.23	2.11
2800	-16.56	111.77	17.71	-130.47	-24.44	157.03	-21.14	154.14	1.29	0.47	25.14	11.16	2.09
2900	-16.07	99.20	17.59	-140.38	-24.40	149.72	-20.73	140.43	1.30	0.47	24.98	11.11	2.13
3000	-15.90	88.04	17.39	-150.40	-24.38	141.98	-20.40	129.94	1.31	0.46	25.02	10.92	2.06

TYPE: MMIC Amplifier
MODEL: GALI-3 Reference Data: RDF-970
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 42mA, Vd = 3.76V @Temperature = -45degC

Definitions:
Input Return Loss=-S11(dB)
Gain(Power Gain)=S21(dB)
Reverse Isolation=-S12(dB)
Output Return Loss=-S22(dB)

FREQ	S11		S21		S12		S22		Stability		IP-3 Output	1 dB Compression Output	Noise Figure
(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K	Delta	(dBm)	(dBm)	(dB)
50	-41.20	122.07	23.78	173.13	-25.98	-6.37	-24.96	167.97	1.03	0.78	30.47	14.94	2.04
100	-39.00	53.70	23.78	166.67	-26.57	-6.43	-25.93	161.18	1.05	0.73	30.61	14.92	2.20
150	-37.14	56.62	23.71	160.48	-26.36	-9.77	-26.39	162.65	1.05	0.74	31.17	14.94	2.10
200	-33.85	54.26	23.67	154.06	-26.42	-12.88	-26.06	153.42	1.05	0.73	30.75	14.96	1.95
250	-32.72	53.00	23.63	147.62	-26.38	-16.32	-25.70	146.44	1.05	0.73	29.61	14.98	2.07
300	-31.55	49.55	23.53	141.46	-26.27	-18.48	-25.48	141.49	1.05	0.73	30.59	14.87	2.32
350	-30.28	49.24	23.46	135.21	-26.40	-22.92	-24.92	134.80	1.05	0.71	30.25	14.82	2.19
400	-29.67	44.78	23.36	129.07	-26.32	-26.02	-24.64	128.22	1.05	0.71	30.02	14.80	2.03
450	-28.93	42.59	23.26	122.99	-26.25	-28.96	-24.26	121.29	1.06	0.71	29.62	14.74	2.07
500	-27.74	35.37	23.17	116.98	-26.22	-32.19	-24.24	115.52	1.06	0.70	29.84	14.76	2.25
550	-26.84	30.29	23.07	111.00	-26.20	-35.22	-24.25	108.97	1.06	0.70	29.64	14.73	2.18
600	-26.24	23.79	22.99	104.98	-26.18	-38.90	-23.96	102.05	1.06	0.69	29.54	14.74	2.00
650	-25.54	19.17	22.87	99.11	-26.18	-41.83	-23.55	95.20	1.07	0.68	29.36	14.72	2.08
700	-24.75	13.66	22.76	93.22	-26.15	-45.77	-23.18	88.63	1.07	0.67	29.78	14.67	2.12
750	-24.42	9.73	22.65	87.36	-25.98	-48.80	-23.00	82.66	1.07	0.68	29.70	14.54	2.10
800	-23.86	5.46	22.55	81.55	-26.03	-52.62	-22.80	77.17	1.07	0.67	29.47	14.46	1.99
850	-23.47	-0.70	22.42	75.76	-25.96	-55.74	-22.66	69.86	1.07	0.66	29.45	14.42	2.01
900	-23.23	-6.34	22.30	70.08	-25.92	-59.47	-22.50	62.82	1.08	0.66	29.61	14.34	2.17
940	-22.96	-10.24	22.21	65.58	-25.82	-62.28	-22.41	55.93	1.08	0.66	29.58	14.26	2.16
1000	-22.68	-17.48	22.07	58.75	-25.79	-66.20	-22.21	48.75	1.08	0.65	29.40	14.31	2.01
1100	-22.21	-28.79	21.86	47.63	-25.68	-73.25	-21.87	36.15	1.08	0.64	29.22	14.20	2.17
1200	-21.80	-41.58	21.60	36.50	-25.62	-80.57	-21.67	24.47	1.09	0.62	29.06	14.24	2.03
1300	-21.40	-52.74	21.38	25.54	-25.56	-87.42	-21.62	11.22	1.10	0.61	29.04	14.26	2.20
1400	-21.16	-66.31	21.15	14.67	-25.47	-94.40	-21.58	-0.01	1.11	0.60	28.70	14.31	2.14
1500	-20.74	-78.92	20.91	3.86	-25.38	-101.86	-21.78	-12.18	1.12	0.59	28.89	14.12	2.27
1600	-20.35	-91.42	20.67	-6.79	-25.35	-108.90	-21.78	-25.78	1.13	0.58	29.10	14.09	2.18
1700	-20.13	-103.16	20.44	-17.45	-25.28	-116.26	-21.92	-36.83	1.14	0.57	29.35	14.04	2.19
1800	-20.14	-115.30	20.23	-27.99	-25.14	-123.77	-21.97	-49.91	1.14	0.56	28.80	14.06	2.23
1900	-19.80	-128.86	20.00	-38.39	-25.09	-131.15	-22.00	-63.57	1.15	0.55	28.33	14.07	2.20
2000	-19.51	-142.70	19.80	-48.78	-25.00	-138.30	-22.49	-76.88	1.16	0.54	28.36	14.03	2.20
2100	-19.21	-154.38	19.57	-59.26	-24.90	-145.95	-22.44	-89.33	1.17	0.53	27.83	14.06	2.19
2200	-18.83	-166.05	19.35	-69.45	-24.87	-153.81	-22.72	-103.42	1.19	0.52	27.95	13.86	2.15
2300	-18.64	-178.46	19.13	-79.60	-24.78	-161.26	-22.58	-117.55	1.20	0.52	27.44	13.71	2.15
2400	-18.44	168.26	18.94	-89.89	-24.73	-169.05	-22.59	-132.32	1.21	0.51	27.24	13.45	2.22
2500	-17.95	155.33	18.71	-100.03	-24.75	-176.88	-22.27	-146.60	1.23	0.50	27.03	13.34	2.18
2600	-17.19	145.81	18.48	-109.81	-24.69	175.74	-21.90	-162.66	1.24	0.49	26.56	13.07	2.20
2700	-17.16	134.05	18.33	-119.92	-24.58	168.56	-22.31	-176.41	1.24	0.49	26.51	12.80	2.21
2800	-17.02	125.70	18.08	-130.07	-24.64	160.08	-21.68	174.84	1.27	0.47	26.19	12.62	2.25
2900	-16.61	112.09	17.96	-139.87	-24.52	152.97	-21.59	159.13	1.27	0.47	26.14	12.51	2.20
3000	-16.47	101.06	17.77	-149.91	-24.48	144.54	-21.28	147.66	1.28	0.47	25.93	12.31	2.18

TYPE: MMIC Amplifier
MODEL: GALI-3 Reference Data: RDF-970
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 35mA, Vd = 3.42V @Temperature = +85degC

Definitions:
Input Return Loss=-S11(dB)
Gain(Power Gain)=S21(dB)
Reverse Isolation=-S12(dB)
Output Return Loss=-S22(dB)

FREQ	S11		S21		S12		S22		Stability		IP-3 Output	1 dB Compression Output	Noise Figure
(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K	Delta	(dBm)	(dBm)	(dB)
50	-25.83	-0.03	22.93	173.11	-25.69	-6.32	-34.17	3.95	1.05	0.73	27.18	12.86	3.01
100	-24.19	0.65	22.93	166.69	-25.92	-7.31	-35.17	7.71	1.06	0.71	27.35	12.78	3.14
150	-24.89	-4.19	22.86	160.53	-25.90	-9.07	-35.83	-10.96	1.06	0.71	27.90	12.87	3.06
200	-24.70	-1.09	22.82	154.22	-25.66	-12.66	-37.71	-9.43	1.05	0.72	27.56	12.84	2.92
250	-24.38	-5.47	22.77	147.80	-25.72	-16.01	-40.05	-17.82	1.06	0.71	26.35	12.78	3.03
300	-23.99	-9.46	22.66	141.73	-25.73	-18.98	-39.86	-28.24	1.06	0.70	27.36	12.70	3.23
350	-23.84	-12.18	22.59	135.51	-25.62	-22.15	-41.26	-27.60	1.06	0.71	26.99	12.69	3.15
400	-23.74	-14.63	22.50	129.38	-25.71	-25.67	-40.34	-35.06	1.07	0.69	26.77	12.64	3.03
450	-23.77	-16.68	22.39	123.36	-25.68	-29.34	-42.83	-25.49	1.07	0.69	26.32	12.58	3.08
500	-23.28	-18.50	22.29	117.45	-25.58	-32.00	-44.94	-32.35	1.07	0.68	26.52	12.62	3.24
550	-22.93	-22.17	22.20	111.55	-25.59	-35.32	-45.58	-9.74	1.07	0.68	26.33	12.58	3.16
600	-22.65	-25.67	22.09	105.59	-25.59	-38.20	-44.87	9.69	1.08	0.67	26.21	12.59	2.99
650	-22.49	-29.08	21.97	99.71	-25.59	-42.03	-42.46	22.75	1.08	0.66	26.05	12.55	3.10
700	-22.35	-31.24	21.87	93.93	-25.45	-45.33	-39.85	33.34	1.08	0.66	26.39	12.52	3.10
750	-22.22	-35.76	21.76	88.10	-25.44	-48.90	-37.80	41.15	1.09	0.65	26.36	12.35	3.12
800	-21.97	-38.91	21.64	82.29	-25.43	-52.06	-36.73	38.55	1.09	0.65	26.17	12.26	3.02
850	-21.63	-42.79	21.52	76.67	-25.39	-55.39	-36.13	26.52	1.09	0.64	26.14	12.26	3.02
900	-21.36	-47.44	21.41	71.00	-25.36	-58.98	-34.99	17.58	1.10	0.63	26.25	12.15	3.19
940	-21.21	-50.62	21.32	66.55	-25.37	-61.51	-34.09	10.07	1.10	0.63	26.28	12.00	3.18
1000	-20.76	-57.08	21.17	59.84	-25.30	-65.47	-32.91	7.56	1.11	0.62	26.10	12.07	3.04
1100	-20.33	-66.31	20.93	48.84	-25.24	-72.64	-31.70	-2.64	1.12	0.61	25.90	12.00	3.20
1200	-19.89	-76.18	20.68	37.81	-25.17	-79.52	-31.12	-16.05	1.13	0.59	25.77	11.97	3.10
1300	-19.59	-86.09	20.44	26.99	-25.11	-86.50	-29.65	-26.85	1.14	0.58	25.74	11.96	3.24
1400	-19.29	-98.13	20.19	16.27	-25.02	-93.55	-29.01	-36.97	1.15	0.57	25.42	12.07	3.22
1500	-18.95	-108.37	19.96	5.57	-25.00	-100.70	-28.69	-52.78	1.16	0.56	25.56	11.72	3.32
1600	-18.45	-119.41	19.70	-4.92	-24.93	-107.41	-27.79	-65.74	1.17	0.55	25.97	11.72	3.27
1700	-18.10	-129.32	19.46	-15.38	-24.93	-114.61	-27.71	-76.86	1.19	0.53	26.21	11.57	3.27
1800	-17.97	-140.12	19.23	-25.84	-24.84	-121.88	-27.05	-89.21	1.20	0.52	25.68	11.67	3.31
1900	-17.65	-151.07	18.99	-36.05	-24.78	-129.49	-26.69	-103.51	1.21	0.51	25.11	11.68	3.28
2000	-17.33	-162.75	18.78	-46.30	-24.76	-136.06	-26.40	-118.43	1.23	0.50	25.12	11.49	3.31
2100	-17.06	-173.67	18.52	-56.51	-24.72	-143.78	-25.63	-128.31	1.24	0.49	24.57	11.68	3.29
2200	-16.77	176.38	18.29	-66.58	-24.71	-150.89	-25.08	-141.67	1.26	0.48	24.64	11.30	3.28
2300	-16.48	165.69	18.07	-76.57	-24.70	-158.49	-24.37	-153.68	1.28	0.47	24.23	11.19	3.27
2400	-16.25	154.77	17.84	-86.62	-24.65	-166.12	-23.93	-164.70	1.30	0.46	23.97	10.84	3.39
2500	-15.92	143.85	17.64	-96.57	-24.57	-172.87	-23.46	-177.33	1.31	0.46	23.72	10.80	3.28
2600	-15.63	134.74	17.41	-106.25	-24.60	179.29	-22.84	170.93	1.33	0.44	23.28	10.48	3.35
2700	-15.59	124.01	17.21	-116.25	-24.52	172.15	-22.70	160.45	1.35	0.44	23.16	10.22	3.34
2800	-15.35	114.62	16.99	-125.92	-24.60	164.66	-21.95	150.95	1.38	0.43	22.92	10.07	3.36
2900	-15.10	103.55	16.81	-135.78	-24.62	157.05	-21.53	140.00	1.40	0.42	22.73	9.92	3.37
3000	-14.95	93.73	16.60	-145.58	-24.49	149.58	-21.17	131.41	1.41	0.41	22.56	9.68	3.31

TYPE: MMIC Amplifier
MODEL: GALI-3 Reference Data: RDF-970
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 28mA, Vd = 3.38V @Temperature = +85degC

Definitions:
Input Return Loss=-S11(dB)
Gain(Power Gain)=S21(dB)
Reverse Isolation=-S12(dB)
Output Return Loss=-S22(dB)

FREQ	S11		S21		S12		S22		Stability		IP-3 Output	1 dB Compression Output	Noise Figure
(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K	Delta	(dBm)	(dBm)	(dB)
50	-20.64	-2.63	22.47	173.19	-25.49	-10.46	-23.59	-2.62	1.06	0.71	24.44	11.37	2.98
100	-19.78	-5.00	22.47	166.82	-25.61	-6.14	-24.17	-5.51	1.06	0.70	24.59	11.11	3.08
150	-20.28	-10.56	22.39	160.74	-25.40	-10.02	-24.49	-15.52	1.06	0.71	25.05	11.35	3.02
200	-20.06	-11.78	22.35	154.44	-25.46	-13.11	-25.32	-22.05	1.06	0.70	24.83	11.35	2.90
250	-20.22	-16.52	22.29	148.08	-25.18	-15.85	-25.43	-27.78	1.05	0.72	23.69	11.18	3.00
300	-20.05	-20.07	22.23	141.98	-25.26	-19.91	-25.47	-33.93	1.06	0.71	24.68	11.17	3.18
350	-20.09	-23.72	22.14	135.82	-25.41	-22.71	-25.43	-39.31	1.07	0.69	24.34	11.15	3.10
400	-19.97	-27.96	22.07	129.72	-25.18	-26.27	-25.63	-44.41	1.06	0.70	24.19	11.18	3.02
450	-20.08	-31.67	21.96	123.77	-25.30	-30.00	-26.15	-47.63	1.07	0.69	23.73	10.96	3.05
500	-19.84	-34.44	21.86	117.89	-25.22	-32.73	-26.71	-53.44	1.07	0.68	24.00	11.09	3.15
550	-19.88	-37.59	21.76	112.02	-25.18	-35.94	-27.13	-57.64	1.07	0.68	23.86	11.09	3.11
600	-19.89	-41.18	21.69	106.05	-25.13	-39.40	-27.15	-60.90	1.08	0.68	23.81	11.03	2.99
650	-19.74	-45.56	21.58	100.20	-25.17	-43.12	-27.82	-62.98	1.08	0.67	23.61	11.06	3.05
700	-19.74	-48.74	21.47	94.44	-25.07	-46.24	-28.45	-64.83	1.08	0.66	24.00	11.02	3.05
750	-19.85	-52.45	21.37	88.64	-25.04	-49.91	-29.14	-66.98	1.09	0.66	24.03	10.95	3.05
800	-19.72	-56.01	21.25	82.83	-25.08	-53.15	-29.75	-68.97	1.09	0.65	23.90	10.68	3.01
850	-19.44	-60.22	21.14	77.20	-25.03	-56.62	-29.55	-70.54	1.10	0.64	23.88	10.84	3.01
900	-19.35	-64.48	21.01	71.61	-25.04	-59.80	-29.85	-72.28	1.10	0.63	24.02	10.73	3.10
940	-19.25	-67.36	20.93	67.10	-24.97	-62.79	-29.47	-70.95	1.10	0.63	24.20	10.47	3.13
1000	-19.05	-72.74	20.77	60.38	-24.96	-67.01	-29.79	-72.79	1.11	0.62	24.02	10.59	3.03
1100	-18.82	-81.62	20.57	49.36	-24.91	-73.77	-29.58	-76.78	1.12	0.61	23.90	10.72	3.13
1200	-18.50	-90.99	20.32	38.38	-24.85	-80.97	-29.43	-81.76	1.13	0.60	23.88	10.68	3.07
1300	-18.38	-99.91	20.08	27.55	-24.85	-88.02	-28.93	-84.45	1.14	0.58	24.01	10.61	3.17
1400	-18.09	-111.07	19.86	16.75	-24.79	-94.87	-28.52	-90.78	1.15	0.57	23.74	10.74	3.18
1500	-17.77	-121.26	19.62	6.06	-24.71	-102.23	-28.08	-99.20	1.16	0.56	23.87	10.41	3.23
1600	-17.39	-131.07	19.39	-4.51	-24.71	-109.22	-26.95	-107.73	1.18	0.55	24.42	10.53	3.22
1700	-17.14	-140.58	19.14	-14.95	-24.62	-116.55	-26.89	-115.77	1.19	0.54	24.97	10.39	3.22
1800	-17.08	-150.57	18.93	-25.49	-24.63	-123.81	-26.26	-124.83	1.21	0.52	24.72	10.59	3.24
1900	-16.74	-161.54	18.69	-35.69	-24.54	-131.02	-25.62	-135.41	1.22	0.52	24.04	10.52	3.23
2000	-16.41	-172.54	18.47	-46.02	-24.52	-138.50	-25.16	-146.92	1.23	0.50	24.17	10.38	3.22
2100	-16.25	177.55	18.23	-56.26	-24.48	-145.85	-24.57	-154.25	1.25	0.49	23.69	10.55	3.24
2200	-15.95	167.51	18.01	-66.36	-24.48	-153.20	-23.90	-164.80	1.27	0.48	23.85	10.10	3.19
2300	-15.70	157.14	17.78	-76.33	-24.45	-160.25	-23.21	-173.49	1.28	0.47	23.57	10.15	3.23
2400	-15.53	147.23	17.57	-86.49	-24.42	-167.70	-22.80	176.50	1.30	0.46	23.40	9.81	3.31
2500	-15.18	136.17	17.37	-96.40	-24.40	-174.99	-22.23	165.77	1.32	0.46	23.26	9.95	3.22
2600	-14.94	127.30	17.14	-106.16	-24.40	177.32	-21.73	156.38	1.34	0.45	22.85	9.76	3.29
2700	-14.95	117.29	16.94	-116.17	-24.35	169.86	-21.52	146.61	1.35	0.44	22.81	9.55	3.29
2800	-14.72	107.66	16.72	-125.90	-24.38	162.48	-20.87	138.06	1.38	0.43	22.59	9.40	3.29
2900	-14.46	96.98	16.54	-135.76	-24.37	155.07	-20.51	128.60	1.40	0.42	22.37	9.26	3.30
3000	-14.39	87.45	16.34	-145.61	-24.35	147.16	-20.13	120.44	1.42	0.41	22.28	9.07	3.23

TYPE: MMIC Amplifier
MODEL: GALI-3 Reference Data: RDF-970
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 42mA, Vd = 3.45V @Temperature = +85degC

Definitions:
Input Return Loss=-S11(dB)
Gain(Power Gain)=S21(dB)
Reverse Isolation=-S12(dB)
Output Return Loss=-S22(dB)

FREQ	S11		S21		S12		S22		Stability		IP-3 Output	1 dB Compression Output	Noise Figure
(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K	Delta	(dBm)	(dBm)	(dB)
50	-31.52	6.00	23.23	173.10	-26.08	-4.52	-41.35	139.39	1.05	0.72	29.63	13.78	3.06
100	-28.67	13.74	23.23	166.63	-26.17	-6.05	-36.33	133.24	1.06	0.71	29.88	13.89	3.22
150	-29.89	9.84	23.14	160.42	-25.97	-9.13	-36.54	160.10	1.05	0.72	30.59	13.89	3.10
200	-28.96	15.02	23.10	154.11	-26.04	-12.51	-35.44	151.71	1.06	0.71	29.91	13.85	2.94
250	-28.23	11.88	23.05	147.62	-26.08	-16.02	-34.90	145.48	1.06	0.70	28.55	13.89	3.09
300	-27.73	8.54	22.96	141.52	-25.90	-20.23	-35.00	140.60	1.06	0.71	29.37	13.67	3.32
350	-27.25	6.83	22.88	135.30	-25.95	-21.74	-34.09	134.73	1.06	0.70	29.01	13.64	3.22
400	-26.72	3.51	22.78	129.16	-25.90	-25.24	-34.42	126.69	1.06	0.70	28.65	13.57	3.06
450	-26.26	2.21	22.66	123.14	-25.97	-28.67	-33.59	117.63	1.07	0.68	28.25	13.49	3.12
500	-25.46	-0.32	22.56	117.21	-25.85	-31.55	-33.30	114.78	1.07	0.68	28.22	13.46	3.30
550	-25.01	-3.11	22.45	111.24	-25.84	-35.22	-32.49	106.14	1.07	0.68	27.98	13.49	3.24
600	-24.55	-6.95	22.36	105.29	-25.77	-38.11	-31.72	97.67	1.07	0.67	27.74	13.52	3.05
650	-24.16	-11.01	22.24	99.40	-25.80	-41.54	-30.96	90.23	1.08	0.66	27.55	13.39	3.11
700	-23.67	-14.65	22.12	93.64	-25.67	-44.92	-30.06	83.18	1.08	0.66	27.79	13.41	3.18
750	-23.47	-18.25	22.01	87.81	-25.71	-48.23	-29.11	77.24	1.09	0.65	27.64	13.15	3.17
800	-23.10	-21.34	21.90	82.02	-25.71	-51.54	-28.85	71.34	1.09	0.64	27.34	13.12	3.08
850	-22.53	-27.73	21.77	76.36	-25.64	-54.75	-28.94	62.03	1.09	0.64	27.25	12.99	3.06
900	-22.25	-33.00	21.64	70.74	-25.62	-57.72	-28.76	53.89	1.10	0.63	27.26	12.89	3.25
940	-21.97	-36.43	21.54	66.27	-25.53	-60.77	-28.55	45.96	1.10	0.63	27.16	12.82	3.25
1000	-21.53	-42.74	21.39	59.51	-25.50	-64.73	-28.05	38.41	1.10	0.62	26.89	12.86	3.09
1100	-21.02	-53.01	21.16	48.51	-25.46	-71.68	-27.57	25.22	1.11	0.61	26.63	12.62	3.27
1200	-20.49	-64.34	20.89	37.55	-25.42	-78.31	-27.45	12.35	1.13	0.59	26.37	12.64	3.15
1300	-20.17	-74.44	20.65	26.75	-25.34	-85.85	-26.82	-1.91	1.14	0.58	26.19	12.66	3.30
1400	-19.88	-87.20	20.41	16.02	-25.26	-92.52	-26.42	-13.74	1.14	0.57	25.91	12.74	3.27
1500	-19.47	-98.73	20.16	5.36	-25.21	-99.43	-26.55	-28.16	1.16	0.56	25.99	12.38	3.36
1600	-18.95	-110.79	19.91	-5.11	-25.09	-106.55	-26.15	-43.45	1.16	0.55	26.09	12.29	3.34
1700	-18.58	-121.11	19.65	-15.58	-25.12	-113.63	-26.20	-55.07	1.19	0.53	25.99	12.10	3.32
1800	-18.47	-131.70	19.43	-25.97	-25.02	-120.76	-25.99	-68.42	1.20	0.52	25.37	12.18	3.37
1900	-18.11	-143.78	19.19	-36.20	-24.94	-127.89	-25.92	-83.40	1.21	0.51	25.00	12.15	3.35
2000	-17.77	-155.72	18.96	-46.37	-24.92	-135.06	-25.95	-98.22	1.22	0.50	24.88	12.01	3.37
2100	-17.56	-166.69	18.71	-56.63	-24.90	-142.36	-25.34	-110.50	1.24	0.49	24.36	12.19	3.34
2200	-17.19	-177.25	18.49	-66.64	-24.84	-149.97	-25.09	-125.57	1.26	0.48	24.43	11.81	3.34
2300	-16.90	171.53	18.25	-76.59	-24.79	-157.00	-24.48	-138.54	1.27	0.47	23.97	11.68	3.34
2400	-16.68	160.84	18.02	-86.66	-24.80	-164.41	-24.12	-151.28	1.29	0.46	23.73	11.30	3.45
2500	-16.31	149.11	17.82	-96.57	-24.71	-171.36	-23.80	-164.53	1.30	0.46	23.44	11.21	3.33
2600	-16.01	139.82	17.59	-106.29	-24.66	-179.15	-23.30	-177.63	1.32	0.45	22.99	10.87	3.44
2700	-15.99	129.10	17.39	-116.16	-24.60	173.30	-23.19	171.01	1.34	0.44	22.91	10.56	3.41
2800	-15.69	119.58	17.17	-125.87	-24.62	165.93	-22.46	160.07	1.36	0.43	22.62	10.38	3.46
2900	-15.46	108.16	16.98	-135.66	-24.57	158.37	-22.05	148.62	1.37	0.43	22.52	10.27	3.40
3000	-15.33	98.38	16.78	-145.39	-24.55	150.99	-21.67	139.45	1.39	0.42	22.23	10.02	3.40