

GALI-4 Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

TYPE: MMIC Amplifier

MODEL: GALI-4 Reference Data: RDF-1245F

S PARAMETERS are presented in dB/deg Format

TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 65mA, Vd = 4.50V @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			
50	-33.08	4.44	14.61	174.12	-19.04	-5.08	-40.95	7.99	1.13	0.60	36.20	17.83	3.90
100	-35.37	-10.67	14.61	168.87	-19.04	-8.38	-44.55	-1.92	1.13	0.60	35.95	17.88	4.13
200	-35.58	-37.66	14.56	158.33	-19.05	-16.68	-45.98	-19.98	1.14	0.60	36.04	17.84	3.94
300	-34.49	-49.34	14.51	147.70	-19.08	-24.72	-46.94	-58.74	1.14	0.59	35.55	17.83	4.27
400	-34.81	-80.20	14.47	137.19	-19.08	-32.92	-45.93	-96.15	1.14	0.59	35.05	17.89	4.03
500	-32.93	-82.49	14.42	126.59	-19.09	-41.03	-43.68	-112.09	1.15	0.58	34.51	17.67	4.16
600	-33.79	-101.43	14.38	116.15	-19.12	-49.20	-42.48	-124.78	1.15	0.58	34.12	17.67	4.02
700	-30.91	-109.78	14.33	105.60	-19.13	-57.33	-41.37	-139.30	1.16	0.58	34.07	17.69	4.15
800	-32.16	-122.51	14.27	95.22	-19.16	-65.52	-40.41	-143.14	1.16	0.57	33.95	17.54	4.10
900	-29.21	-131.91	14.22	84.76	-19.17	-73.81	-39.23	-143.67	1.17	0.57	33.76	17.65	4.14
1000	-30.51	-139.92	14.16	74.31	-19.20	-82.02	-38.64	-148.90	1.17	0.56	33.41	17.51	4.07
1100	-28.53	-157.47	14.12	63.94	-19.22	-90.33	-37.19	-152.83	1.18	0.56	33.02	17.38	4.10
1200	-28.50	-157.71	14.06	53.57	-19.28	-98.39	-35.94	-157.52	1.18	0.55	32.69	17.26	4.13
1300	-27.41	-178.80	14.00	43.28	-19.30	-106.78	-35.07	-163.32	1.19	0.54	32.22	17.08	4.14
1400	-26.43	-179.13	13.94	33.02	-19.33	-115.03	-33.83	-169.95	1.20	0.54	31.80	17.04	4.21
1500	-25.89	166.11	13.88	22.63	-19.38	-123.25	-33.06	-177.30	1.20	0.53	31.61	16.90	4.28
1600	-24.88	159.65	13.83	12.36	-19.44	-131.40	-32.02	176.36	1.21	0.52	31.86	16.79	4.22
1700	-25.17	147.16	13.77	2.09	-19.49	-139.78	-30.83	168.02	1.22	0.52	31.84	16.73	4.16
1800	-23.62	138.74	13.70	-8.11	-19.54	-148.18	-29.90	159.35	1.23	0.51	31.22	16.57	4.31
1900	-23.45	131.42	13.65	-18.36	-19.59	-156.27	-28.59	150.51	1.24	0.50	30.76	16.48	4.22
2000	-22.40	121.06	13.57	-28.47	-19.65	-164.57	-27.38	142.83	1.25	0.50	30.54	16.33	4.08
2100	-22.14	115.64	13.50	-38.82	-19.74	-172.92	-26.40	135.31	1.26	0.49	30.21	16.16	4.28
2200	-21.47	105.61	13.44	-48.97	-19.79	178.83	-25.37	126.37	1.27	0.48	29.81	16.00	4.15
2300	-20.82	97.85	13.37	-59.08	-19.85	170.41	-24.38	118.80	1.28	0.48	29.42	15.76	4.21
2400	-20.39	89.77	13.29	-69.43	-19.93	162.03	-23.54	110.69	1.29	0.47	29.05	15.49	4.30
2500	-19.61	82.38	13.22	-79.37	-20.01	153.77	-22.55	102.43	1.31	0.46	28.59	15.29	4.18
2600	-19.23	74.42	13.14	-89.52	-20.10	145.32	-21.84	94.65	1.32	0.45	28.29	15.10	4.35
2700	-18.61	65.86	13.09	-99.50	-20.15	137.10	-20.93	86.27	1.33	0.45	27.98	14.90	4.25
2800	-18.21	57.81	13.00	-109.54	-20.25	128.71	-20.37	79.16	1.35	0.44	27.74	14.76	4.31
2900	-17.77	49.45	12.96	-119.79	-20.32	120.26	-19.68	70.37	1.36	0.44	27.49	14.57	4.35
3000	-17.40	41.25	12.89	-129.67	-20.40	111.78	-19.23	62.13	1.37	0.43	27.26	14.33	4.19
3100	-17.08	32.56	12.82	-139.73	-20.50	103.48	-18.76	54.71	1.39	0.42	26.91	13.98	4.47
3200	-16.73	23.71	12.74	-149.50	-20.60	94.95	-18.34	47.24	1.40	0.42	26.65	13.72	4.20
3300	-16.41	15.64	12.67	-159.50	-20.68	86.63	-18.04	39.54	1.42	0.41	26.42	13.76	4.38
3400	-16.25	6.18	12.64	-169.46	-20.76	78.07	-17.75	31.86	1.43	0.41	26.17	13.44	4.40
3500	-16.01	-3.16	12.55	-179.47	-20.86	69.40	-17.61	24.28	1.45	0.40	25.92	13.29	4.28
3600	-15.92	-12.34	12.53	170.49	-20.91	61.15	-17.31	15.52	1.46	0.40	25.62	12.97	4.47
3700	-15.75	-20.99	12.45	160.81	-21.05	52.49	-17.21	8.26	1.49	0.39	25.38	12.65	4.33
3800	-15.71	-29.97	12.40	150.80	-21.12	43.84	-17.14	-0.40	1.50	0.38	25.18	12.44	4.59
4000	-15.50	-47.51	12.29	130.85	-21.30	26.70	-17.03	-16.09	1.54	0.37	24.74	11.90	4.47

TYPE: MMIC Amplifier
 MODEL: GALI-4 Reference Data: RDF-1245F
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 52mA, Vd = 4.36V @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			
50	-30.34	2.52	14.50	174.13	-18.99	-4.72	-34.35	4.18	1.14	0.60	33.20	16.32	3.85
100	-31.89	-11.12	14.48	168.81	-18.96	-8.38	-36.05	-6.89	1.14	0.60	32.93	16.42	4.05
200	-32.13	-31.82	14.44	158.26	-18.99	-16.56	-36.80	-19.82	1.14	0.59	33.10	16.32	3.88
300	-31.32	-43.48	14.40	147.67	-18.98	-24.77	-37.22	-38.11	1.14	0.59	32.81	16.25	4.19
400	-31.91	-68.25	14.36	137.09	-19.00	-32.88	-37.34	-57.31	1.15	0.59	32.44	16.37	3.98
500	-30.37	-74.69	14.31	126.49	-19.01	-41.08	-37.28	-74.65	1.15	0.58	32.09	16.24	4.09
600	-31.27	-90.75	14.27	116.01	-19.03	-49.26	-36.91	-87.63	1.15	0.58	31.83	16.27	3.97
700	-28.98	-101.90	14.22	105.42	-19.04	-57.53	-36.74	-102.70	1.16	0.57	32.00	16.32	4.07
800	-29.90	-112.64	14.16	95.01	-19.07	-65.61	-35.99	-110.77	1.16	0.57	32.02	16.23	4.01
900	-27.63	-125.11	14.12	84.57	-19.10	-73.93	-34.93	-117.69	1.17	0.56	31.97	16.31	4.08
1000	-28.65	-132.33	14.06	74.06	-19.10	-82.26	-34.61	-126.99	1.17	0.56	31.72	16.19	4.01
1100	-27.15	-150.25	14.01	63.67	-19.15	-90.46	-33.45	-134.11	1.18	0.55	31.37	16.05	4.03
1200	-26.89	-151.98	13.94	53.31	-19.18	-98.49	-32.59	-142.43	1.19	0.55	31.06	15.94	4.07
1300	-26.14	-172.12	13.89	43.00	-19.22	-106.91	-31.82	-150.09	1.19	0.54	30.68	15.84	4.04
1400	-25.17	-174.25	13.83	32.66	-19.26	-115.18	-30.99	-159.18	1.20	0.54	30.26	15.85	4.15
1500	-24.80	171.13	13.77	22.30	-19.31	-123.44	-30.45	-168.20	1.21	0.53	30.14	15.73	4.22
1600	-23.83	163.80	13.71	11.99	-19.35	-131.64	-29.56	-175.96	1.21	0.52	30.42	15.67	4.15
1700	-24.06	151.75	13.66	1.65	-19.41	-140.07	-28.74	174.63	1.22	0.52	30.58	15.65	4.09
1800	-22.73	142.37	13.60	-8.55	-19.47	-148.37	-28.00	165.32	1.23	0.51	30.02	15.53	4.24
1900	-22.50	134.63	13.54	-18.82	-19.50	-156.51	-27.03	155.41	1.24	0.50	29.57	15.42	4.14
2000	-21.57	123.98	13.47	-28.96	-19.58	-164.87	-25.93	146.82	1.25	0.50	29.35	15.35	4.00
2100	-21.23	118.15	13.39	-39.36	-19.66	-173.17	-25.13	138.93	1.26	0.49	29.06	15.21	4.23
2200	-20.68	107.91	13.34	-49.54	-19.71	-178.48	-24.17	129.50	1.27	0.48	28.72	15.05	4.06
2300	-20.04	99.79	13.26	-59.65	-19.78	-170.10	-23.33	121.43	1.28	0.47	28.37	14.80	4.16
2400	-19.67	91.20	13.19	-70.01	-19.86	161.75	-22.58	112.88	1.30	0.47	28.06	14.58	4.20
2500	-18.93	83.57	13.12	-79.98	-19.92	153.38	-21.74	104.16	1.31	0.46	27.57	14.32	4.14
2600	-18.57	75.39	13.04	-90.15	-20.03	144.99	-21.10	96.32	1.32	0.45	27.30	14.10	4.26
2700	-17.95	66.58	12.99	-100.15	-20.08	136.87	-20.24	87.55	1.33	0.45	27.02	14.03	4.14
2800	-17.59	58.38	12.89	-110.25	-20.16	128.26	-19.70	80.22	1.35	0.44	26.77	13.81	4.20
2900	-17.17	49.86	12.85	-120.51	-20.24	119.94	-19.11	71.29	1.36	0.44	26.54	13.63	4.29
3000	-16.85	41.44	12.77	-130.47	-20.32	111.50	-18.69	62.95	1.37	0.43	26.32	13.49	4.10
3100	-16.50	32.68	12.70	-140.47	-20.40	102.92	-18.25	55.37	1.39	0.42	25.99	13.15	4.40
3200	-16.17	23.65	12.63	-150.28	-20.52	94.62	-17.86	47.84	1.40	0.42	25.74	12.93	4.09
3300	-15.89	15.50	12.56	-160.37	-20.60	86.19	-17.60	40.00	1.42	0.41	25.48	12.93	4.31
3400	-15.76	5.96	12.52	-170.29	-20.67	77.68	-17.34	32.22	1.43	0.41	25.25	12.76	4.30
3500	-15.52	-3.51	12.43	-179.67	-20.77	69.05	-17.22	24.65	1.45	0.40	24.96	12.32	4.22
3600	-15.43	-12.74	12.41	169.53	-20.86	60.72	-16.92	15.86	1.46	0.39	24.68	12.17	4.42
3700	-15.25	-21.53	12.33	159.81	-20.97	51.89	-16.84	8.52	1.49	0.39	24.43	11.89	4.25
3800	-15.22	-30.66	12.28	149.79	-21.02	43.40	-16.77	-0.22	1.50	0.38	24.21	11.64	4.52
4000	-15.04	-48.34	12.17	129.82	-21.23	26.34	-16.69	-15.99	1.54	0.37	23.77	11.14	4.36

TYPE: MMIC Amplifier
 MODEL: GALI-4 Reference Data: RDF-1245F
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 78mA, Vd = 4.62V @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			
50	-35.71	8.34	14.68	174.14	-19.15	-4.87	-49.56	41.92	1.14	0.60	38.42	18.32	3.98
100	-38.93	-10.29	14.67	168.88	-19.12	-8.25	-58.94	88.18	1.13	0.60	38.21	18.36	4.22
200	-38.90	-43.99	14.63	158.36	-19.13	-16.62	-56.43	159.13	1.14	0.60	37.94	18.47	4.01
300	-37.17	-55.34	14.58	147.79	-19.13	-24.73	-49.42	-168.85	1.14	0.59	37.25	18.62	4.38
400	-36.91	-94.29	14.54	137.24	-19.14	-32.78	-45.57	-168.20	1.14	0.59	36.65	18.72	4.11
500	-34.96	-91.23	14.49	126.69	-19.16	-40.91	-43.51	-166.54	1.15	0.58	35.84	18.53	4.23
600	-35.60	-113.89	14.44	116.27	-19.16	-49.11	-42.46	-173.08	1.15	0.58	35.32	18.49	4.09
700	-32.21	-117.30	14.40	105.77	-19.20	-57.26	-41.08	178.97	1.16	0.58	35.07	18.48	4.22
800	-33.62	-132.50	14.34	95.38	-19.22	-65.44	-41.12	179.97	1.16	0.57	34.70	18.27	4.17
900	-30.32	-138.47	14.29	84.91	-19.22	-73.72	-40.84	-175.96	1.16	0.57	34.45	18.35	4.22
1000	-31.82	-147.17	14.24	74.55	-19.24	-81.97	-40.62	-179.65	1.17	0.56	34.09	18.23	4.14
1100	-29.43	-163.98	14.19	64.19	-19.28	-90.23	-39.53	-177.31	1.18	0.56	33.67	18.08	4.19
1200	-29.59	-162.83	14.13	53.84	-19.33	-98.29	-38.30	-176.37	1.18	0.55	33.33	17.92	4.23
1300	-28.21	175.29	14.06	43.54	-19.36	-106.62	-37.39	-178.16	1.19	0.54	32.82	17.64	4.20
1400	-27.30	176.64	14.01	33.27	-19.39	-114.89	-35.85	-178.80	1.20	0.54	32.44	17.64	4.31
1500	-26.67	161.69	13.94	22.93	-19.45	-123.18	-35.01	172.79	1.21	0.53	32.26	17.49	4.37
1600	-25.63	156.19	13.90	12.71	-19.50	-131.31	-33.80	168.95	1.21	0.52	32.38	17.34	4.30
1700	-25.88	143.57	13.83	2.43	-19.55	-139.66	-32.37	161.95	1.22	0.52	32.21	17.27	4.24
1800	-24.28	135.65	13.77	-7.76	-19.61	-148.02	-31.28	154.05	1.23	0.51	31.64	17.11	4.39
1900	-24.08	128.59	13.72	-17.95	-19.64	-156.07	-29.84	146.63	1.24	0.51	31.23	17.00	4.30
2000	-22.97	118.65	13.65	-28.04	-19.71	-164.47	-28.42	139.29	1.25	0.50	30.99	16.91	4.18
2100	-22.70	113.72	13.57	-38.34	-19.79	-172.76	-27.37	132.58	1.26	0.49	30.70	16.75	4.38
2200	-22.06	103.80	13.51	-48.54	-19.84	178.91	-26.16	124.07	1.27	0.48	30.30	16.58	4.24
2300	-21.37	96.35	13.43	-58.60	-19.91	170.62	-25.05	117.25	1.28	0.48	29.91	16.30	4.32
2400	-20.93	88.26	13.36	-68.87	-19.98	162.24	-24.15	109.30	1.29	0.47	29.49	16.11	4.37
2500	-20.10	81.33	13.30	-78.80	-20.04	154.04	-23.11	101.21	1.30	0.46	29.09	15.95	4.28
2600	-19.71	73.61	13.22	-88.91	-20.14	145.48	-22.37	93.72	1.32	0.45	28.81	15.76	4.43
2700	-19.05	65.14	13.17	-98.90	-20.19	137.38	-21.41	85.49	1.33	0.45	28.50	15.53	4.35
2800	-18.67	57.28	13.07	-108.95	-20.29	128.94	-20.78	78.60	1.34	0.44	28.27	15.45	4.43
2900	-18.19	49.04	13.03	-119.15	-20.36	120.51	-20.07	69.86	1.35	0.44	28.01	15.27	4.47
3000	-17.83	40.97	12.96	-129.04	-20.45	112.01	-19.58	61.76	1.37	0.43	27.78	15.04	4.28
3100	-17.48	32.44	12.89	-139.01	-20.54	103.70	-19.07	54.45	1.39	0.42	27.42	14.62	4.55
3200	-17.12	23.71	12.81	-148.78	-20.64	95.39	-18.65	47.07	1.40	0.42	27.19	14.48	4.32
3300	-16.79	15.74	12.75	-158.76	-20.73	86.90	-18.32	39.41	1.42	0.41	26.97	14.43	4.49
3400	-16.63	6.34	12.71	-168.68	-20.80	78.39	-18.02	31.79	1.43	0.41	26.74	14.16	4.51
3500	-16.37	-2.91	12.62	-178.64	-20.91	69.76	-17.88	24.28	1.45	0.40	26.49	13.95	4.40
3600	-16.29	-12.05	12.60	171.32	-20.97	61.38	-17.56	15.52	1.46	0.40	26.23	13.66	4.56
3700	-16.09	-20.64	12.52	161.66	-21.09	52.73	-17.45	8.46	1.49	0.39	25.97	13.36	4.43
3800	-16.07	-29.58	12.48	151.63	-21.15	44.11	-17.36	-0.34	1.50	0.38	25.77	13.10	4.70
4000	-15.87	-46.87	12.38	131.79	-21.35	27.06	-17.24	-15.92	1.54	0.37	25.33	12.63	4.54

TYPE: MMIC Amplifier
 MODEL: GALI-4 Reference Data: RDF-1245F
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 65mA, Vd = 4.69V @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 (dBm)	1 dB Compression Output (dBm)	Noise Figure (dB)
	(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K			
50	-32.60	-0.60	14.72	173.98	-19.13	-4.99	-39.57	6.32	1.13	0.60	37.04	18.12	3.24
100	-31.73	-14.37	14.71	168.60	-19.12	-8.73	-37.56	-11.66	1.13	0.60	36.80	18.18	3.47
200	-31.30	-25.89	14.67	157.78	-19.10	-17.21	-36.54	-15.54	1.13	0.60	36.87	18.12	3.27
300	-34.87	-46.35	14.64	146.84	-19.10	-25.79	-51.95	15.79	1.13	0.60	36.52	18.12	3.64
400	-36.50	-93.57	14.60	135.99	-19.13	-34.25	-46.33	171.65	1.14	0.59	36.06	18.23	3.36
500	-33.90	-88.29	14.55	125.09	-19.12	-42.93	-44.62	-156.66	1.14	0.59	35.56	18.05	3.45
600	-34.80	-110.01	14.51	114.33	-19.13	-51.42	-43.80	-163.87	1.14	0.59	35.18	18.08	3.34
700	-32.05	-118.12	14.47	103.45	-19.15	-59.98	-40.52	-177.73	1.15	0.58	35.22	18.09	3.44
800	-32.82	-132.49	14.41	92.73	-19.17	-68.61	-40.37	-167.37	1.15	0.58	35.10	17.99	3.39
900	-28.81	-138.36	14.37	81.96	-19.18	-77.13	-40.11	-142.54	1.16	0.57	34.94	18.08	3.43
1000	-29.88	-141.95	14.32	71.13	-19.18	-85.82	-38.91	-140.32	1.16	0.57	34.67	17.98	3.36
1100	-28.51	-161.07	14.28	60.47	-19.22	-94.44	-38.17	-144.93	1.17	0.57	34.34	17.87	3.40
1200	-28.71	-163.95	14.23	49.78	-19.26	-102.97	-38.74	-153.95	1.17	0.56	34.00	17.75	3.43
1300	-28.08	171.61	14.17	39.13	-19.30	-111.68	-38.54	-167.65	1.18	0.55	33.58	17.60	3.38
1400	-27.31	170.40	14.11	28.47	-19.32	-120.39	-37.28	-178.08	1.18	0.55	33.16	17.60	3.48
1500	-26.76	152.57	14.06	17.82	-19.37	-129.04	-37.12	173.95	1.19	0.54	33.03	17.47	3.54
1600	-25.75	145.71	14.01	7.17	-19.40	-137.62	-35.89	164.22	1.20	0.54	33.26	17.40	3.48
1700	-26.06	134.02	13.95	-3.45	-19.47	-146.42	-33.39	156.64	1.21	0.53	33.26	17.37	3.41
1800	-24.37	126.52	13.89	-14.00	-19.51	-155.14	-31.81	152.33	1.21	0.52	32.72	17.25	3.56
1900	-24.32	117.47	13.84	-24.54	-19.55	-163.70	-30.93	144.42	1.22	0.52	32.29	17.17	3.47
2000	-23.24	104.81	13.78	-35.00	-19.61	-172.42	-29.95	135.29	1.23	0.51	32.07	17.11	3.34
2100	-22.82	99.38	13.70	-45.73	-19.69	178.81	-28.77	127.75	1.24	0.50	31.78	16.93	3.51
2200	-22.08	89.69	13.65	-56.22	-19.74	170.16	-27.25	119.09	1.25	0.50	31.42	16.75	3.37
2300	-21.37	82.15	13.57	-66.67	-19.79	161.34	-25.96	111.84	1.26	0.49	31.01	16.50	3.47
2400	-20.93	74.09	13.50	-77.35	-19.86	152.59	-24.83	103.57	1.27	0.48	30.59	16.30	3.47
2500	-20.06	66.95	13.44	-87.69	-19.93	143.97	-23.68	95.33	1.28	0.48	30.05	16.13	3.41
2600	-19.59	59.11	13.36	-98.13	-20.02	135.15	-22.85	87.95	1.29	0.47	29.73	15.82	3.53
2700	-18.85	51.24	13.33	-108.44	-20.07	126.47	-21.71	78.75	1.30	0.46	29.50	15.72	3.46
2800	-18.49	43.93	13.22	-118.86	-20.17	117.67	-20.90	71.30	1.32	0.45	29.03	15.60	3.51
2900	-18.04	35.77	13.18	-129.38	-20.24	108.85	-20.06	62.31	1.33	0.45	28.90	15.41	3.57
3000	-17.65	27.31	13.12	-139.70	-20.31	100.05	-19.56	54.66	1.34	0.44	28.69	15.19	3.40
3100	-17.35	18.59	13.05	-149.99	-20.40	91.29	-19.14	46.91	1.35	0.44	28.37	14.82	3.64
3200	-17.19	9.66	12.99	-160.12	-20.49	82.44	-18.82	38.44	1.37	0.43	28.10	14.67	3.41
3300	-16.95	1.21	12.92	-170.51	-20.57	73.49	-18.56	30.07	1.38	0.43	27.86	14.59	3.59
3400	-16.87	-8.85	12.89	179.19	-20.63	64.62	-18.32	21.81	1.39	0.42	27.63	14.26	3.56
3500	-16.65	-18.43	12.81	168.91	-20.72	55.64	-18.18	13.31	1.41	0.41	27.33	14.08	3.47
3600	-16.62	-27.37	12.80	158.47	-20.78	46.82	-17.81	3.40	1.42	0.41	27.10	13.79	3.59
3700	-16.49	-36.73	12.72	148.45	-20.91	37.68	-17.62	-3.96	1.44	0.40	26.84	13.57	3.52
3800	-16.47	-45.98	12.68	138.08	-20.98	28.67	-17.52	-12.66	1.46	0.40	26.60	13.31	3.71
4000	-16.42	-64.62	12.58	117.50	-21.14	10.81	-17.53	-29.21	1.49	0.39	26.17	12.80	3.61

TYPE: MMIC Amplifier
 MODEL: GALI-4 Reference Data: RDF-1245F
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 52mA, Vd = 4.56V @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			
50	-30.42	-2.06	14.62	174.01	-18.97	-4.92	-35.33	-0.20	1.13	0.61	33.93	16.48	3.18
100	-29.61	-13.27	14.61	168.56	-19.02	-8.79	-33.26	-12.25	1.13	0.60	33.65	16.59	3.39
200	-29.28	-25.23	14.57	157.74	-19.03	-17.43	-32.59	-16.59	1.13	0.60	33.81	16.46	3.23
300	-32.04	-42.32	14.54	146.82	-19.03	-25.75	-39.60	-20.35	1.14	0.60	33.61	16.45	3.58
400	-33.87	-77.96	14.51	135.94	-19.05	-34.33	-46.01	-71.22	1.14	0.59	33.33	16.60	3.32
500	-31.46	-80.22	14.46	124.98	-19.05	-42.94	-41.35	-91.40	1.14	0.59	33.04	16.43	3.39
600	-32.45	-98.00	14.42	114.21	-19.07	-51.50	-41.09	-103.81	1.15	0.59	32.78	16.51	3.27
700	-30.25	-109.61	14.38	103.31	-19.08	-60.04	-39.54	-128.76	1.15	0.58	32.96	16.55	3.36
800	-30.92	-122.25	14.32	92.54	-19.10	-68.69	-37.88	-128.36	1.15	0.58	33.00	16.53	3.33
900	-27.51	-132.23	14.28	81.78	-19.10	-77.29	-35.96	-119.97	1.16	0.57	32.98	16.63	3.35
1000	-28.38	-136.40	14.23	70.97	-19.13	-85.97	-34.82	-123.61	1.16	0.57	32.76	16.44	3.30
1100	-27.30	-154.95	14.18	60.20	-19.15	-94.61	-34.30	-131.21	1.17	0.56	32.45	16.32	3.31
1200	-27.35	-158.80	14.13	49.54	-19.19	-103.12	-34.50	-139.64	1.17	0.56	32.19	16.25	3.36
1300	-26.97	178.26	14.07	38.83	-19.21	-111.84	-34.62	-152.45	1.18	0.55	31.85	16.16	3.32
1400	-26.14	175.21	14.02	28.19	-19.26	-120.55	-33.84	-164.01	1.19	0.55	31.48	16.17	3.42
1500	-25.75	157.99	13.97	17.46	-19.29	-129.25	-33.85	-173.47	1.19	0.54	31.35	16.05	3.46
1600	-24.80	150.26	13.91	6.82	-19.34	-137.80	-32.89	175.66	1.20	0.54	31.64	16.03	3.41
1700	-25.08	138.90	13.86	-3.87	-19.39	-146.57	-31.06	165.44	1.21	0.53	31.82	16.09	3.34
1800	-23.54	130.15	13.80	-14.38	-19.45	-155.29	-29.83	158.85	1.21	0.52	31.31	15.95	3.50
1900	-23.48	120.98	13.75	-24.95	-19.46	-163.95	-29.08	150.10	1.22	0.52	30.94	15.92	3.38
2000	-22.48	108.05	13.69	-35.45	-19.56	-172.72	-28.30	140.07	1.23	0.51	30.77	15.85	3.27
2100	-22.05	102.38	13.60	-46.22	-19.62	178.62	-27.23	131.91	1.24	0.50	30.53	15.68	3.44
2200	-21.38	92.17	13.56	-56.71	-19.67	169.85	-25.97	122.36	1.25	0.50	30.20	15.64	3.31
2300	-20.69	84.20	13.49	-67.23	-19.74	161.09	-24.87	114.29	1.26	0.49	29.88	15.43	3.39
2400	-20.28	75.81	13.41	-77.89	-19.80	152.36	-23.92	105.62	1.27	0.48	29.49	15.31	3.39
2500	-19.44	68.21	13.35	-88.24	-19.86	143.68	-22.85	97.03	1.28	0.48	28.97	15.11	3.35
2600	-18.98	60.17	13.27	-98.74	-19.97	134.82	-22.06	89.32	1.30	0.47	28.67	14.90	3.45
2700	-18.29	51.94	13.23	-109.08	-20.02	126.15	-21.03	80.03	1.30	0.46	28.40	14.74	3.38
2800	-17.93	44.50	13.13	-119.48	-20.11	117.33	-20.31	71.98	1.32	0.45	28.13	14.65	3.42
2900	-17.51	36.04	13.08	-130.12	-20.16	108.55	-19.53	63.08	1.33	0.45	27.87	14.51	3.48
3000	-17.15	27.43	13.02	-140.38	-20.26	99.73	-19.06	55.24	1.34	0.44	27.69	14.35	3.32
3100	-16.85	18.66	12.95	-150.73	-20.33	90.85	-18.66	47.30	1.35	0.44	27.37	13.96	3.57
3200	-16.68	9.60	12.89	-160.90	-20.43	82.06	-18.36	38.85	1.37	0.43	27.14	13.82	3.32
3300	-16.47	0.94	12.83	-171.28	-20.51	73.22	-18.13	30.33	1.38	0.43	26.88	13.76	3.50
3400	-16.38	-9.14	12.79	178.43	-20.57	64.31	-17.93	22.02	1.39	0.42	26.67	13.49	3.49
3500	-16.19	-18.83	12.72	168.08	-20.66	55.23	-17.79	13.50	1.41	0.41	26.37	13.31	3.41
3600	-16.16	-27.88	12.70	157.62	-20.71	46.46	-17.42	3.50	1.42	0.41	26.10	13.06	3.53
3700	-16.01	-37.25	12.62	147.58	-20.83	37.28	-17.25	-3.91	1.44	0.40	25.86	12.74	3.44
3800	-16.00	-46.66	12.58	137.13	-20.90	28.44	-17.18	-12.60	1.45	0.40	25.63	12.48	3.63
4000	-15.95	-65.51	12.49	116.52	-21.07	10.42	-17.21	-29.23	1.49	0.39	25.18	12.02	3.50

TYPE: MMIC Amplifier
 MODEL: GALI-4 Reference Data: RDF-1245F
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 78mA, Vd = 4.83V @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			
50	-34.80	0.35	14.78	174.02	-19.15	-4.84	-45.27	16.76	1.13	0.60	39.05	18.90	3.32
100	-33.50	-15.01	14.77	168.58	-19.14	-8.76	-41.61	-15.15	1.13	0.61	38.98	18.98	3.56
200	-32.87	-26.67	14.73	157.80	-19.13	-17.38	-40.42	-12.38	1.13	0.60	38.72	19.08	3.35
300	-37.42	-50.78	14.70	146.94	-19.15	-25.74	-48.27	121.64	1.13	0.60	38.14	19.15	3.73
400	-38.33	-109.82	14.66	136.09	-19.16	-34.26	-40.25	154.61	1.14	0.60	37.69	19.27	3.43
500	-35.64	-97.58	14.62	125.20	-19.18	-42.84	-40.97	168.76	1.14	0.59	36.99	19.06	3.52
600	-36.32	-122.63	14.58	114.48	-19.18	-51.33	-40.68	162.01	1.14	0.59	36.52	19.05	3.41
700	-33.22	-126.26	14.53	103.63	-19.19	-59.93	-38.24	157.84	1.15	0.58	36.31	19.06	3.50
800	-34.10	-141.98	14.48	92.88	-19.21	-68.57	-39.41	162.79	1.15	0.58	36.00	18.86	3.46
900	-29.70	-143.55	14.43	82.12	-19.23	-77.06	-42.06	-174.96	1.16	0.58	35.77	18.99	3.50
1000	-31.07	-147.28	14.38	71.36	-19.24	-85.79	-42.03	-166.47	1.16	0.57	35.49	18.88	3.45
1100	-29.34	-166.24	14.34	60.70	-19.27	-94.43	-41.38	-165.67	1.16	0.57	35.12	18.75	3.47
1200	-29.72	-168.44	14.28	49.99	-19.32	-102.83	-42.06	-175.45	1.17	0.56	34.79	18.60	3.49
1300	-28.81	166.28	14.23	39.41	-19.34	-111.60	-41.51	170.55	1.18	0.55	34.32	18.39	3.45
1400	-28.14	166.02	14.18	28.80	-19.36	-120.26	-39.78	164.23	1.18	0.55	33.97	18.34	3.56
1500	-27.44	147.94	14.12	18.10	-19.42	-128.96	-39.68	157.13	1.19	0.54	33.75	18.22	3.61
1600	-26.42	142.08	14.06	7.52	-19.47	-137.56	-38.10	150.32	1.20	0.54	33.96	18.08	3.56
1700	-26.76	129.87	14.01	-3.11	-19.52	-146.26	-35.09	147.57	1.21	0.53	33.83	18.02	3.49
1800	-24.97	123.44	13.95	-13.60	-19.56	-154.94	-33.34	145.93	1.21	0.52	33.27	17.85	3.66
1900	-24.95	114.69	13.89	-24.14	-19.59	-163.49	-32.32	139.10	1.22	0.52	32.87	17.80	3.51
2000	-23.77	102.19	13.83	-34.58	-19.66	-172.26	-31.21	130.79	1.23	0.51	32.64	17.71	3.42
2100	-23.41	97.43	13.77	-45.29	-19.74	178.99	-29.81	124.22	1.24	0.50	32.40	17.51	3.60
2200	-22.61	87.72	13.71	-55.78	-19.77	170.32	-28.14	116.55	1.25	0.50	32.03	17.39	3.47
2300	-21.89	80.52	13.63	-66.18	-19.84	161.54	-26.72	109.92	1.26	0.49	31.63	17.12	3.55
2400	-21.43	72.76	13.57	-76.79	-19.91	152.83	-25.52	102.10	1.27	0.48	31.17	16.93	3.55
2500	-20.53	65.83	13.50	-87.12	-19.97	144.10	-24.28	94.13	1.28	0.48	30.72	16.79	3.50
2600	-20.03	58.27	13.42	-97.54	-20.07	135.25	-23.38	87.04	1.29	0.47	30.40	16.53	3.61
2700	-19.28	50.58	13.38	-107.86	-20.11	126.67	-22.16	78.09	1.30	0.46	30.11	16.40	3.54
2800	-18.92	43.58	13.29	-118.23	-20.21	117.83	-21.31	70.60	1.32	0.45	29.75	16.28	3.60
2900	-18.46	35.53	13.25	-128.78	-20.26	109.03	-20.42	62.02	1.32	0.45	29.60	16.15	3.65
3000	-18.05	27.21	13.18	-139.00	-20.35	100.19	-19.91	54.36	1.34	0.44	29.36	15.91	3.48
3100	-17.72	18.68	13.11	-149.32	-20.43	91.44	-19.47	46.67	1.35	0.44	29.03	15.48	3.72
3200	-17.56	9.86	13.04	-159.40	-20.54	82.61	-19.10	38.31	1.37	0.43	28.77	15.33	3.50
3300	-17.32	1.42	12.99	-169.77	-20.60	73.72	-18.84	30.07	1.38	0.43	28.53	15.26	3.67
3400	-17.23	-8.55	12.95	-179.98	-20.67	64.76	-18.59	21.76	1.39	0.42	28.31	15.04	3.65
3500	-17.02	-18.14	12.88	-169.65	-20.76	55.86	-18.45	13.36	1.41	0.41	28.04	14.79	3.57
3600	-17.00	-26.96	12.85	-159.29	-20.82	47.09	-18.03	3.33	1.42	0.41	27.82	14.54	3.72
3700	-16.84	-36.15	12.78	-149.29	-20.95	37.85	-17.85	-3.87	1.44	0.40	27.57	14.29	3.62
3800	-16.84	-45.34	12.74	-138.96	-21.01	29.03	-17.73	-12.61	1.45	0.40	27.34	14.05	3.81
4000	-16.79	-63.78	12.65	-118.36	-21.18	11.01	-17.74	-29.03	1.49	0.39	26.89	13.49	3.71

TYPE: MMIC Amplifier
 MODEL: GALI-4 Reference Data: RDF-1245F
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 65mA, Vd = 4.29V @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			
50	-33.35	10.01	14.51	174.23	-18.95	-4.65	-40.18	14.19	1.13	0.60	35.58	17.50	4.44
100	-39.10	-1.39	14.50	169.00	-19.00	-8.22	-49.89	42.50	1.14	0.60	35.42	17.56	4.69
200	-42.62	-76.18	14.45	158.72	-19.01	-16.16	-45.72	159.21	1.14	0.59	35.47	17.57	4.46
300	-36.23	-63.59	14.41	148.34	-19.03	-23.88	-46.45	-115.40	1.14	0.59	34.94	17.56	4.85
400	-34.00	-79.73	14.36	138.01	-19.04	-31.70	-40.79	-87.08	1.15	0.58	34.39	17.61	4.56
500	-32.39	-79.84	14.31	127.75	-19.06	-39.58	-39.76	-98.07	1.15	0.58	33.75	17.38	4.72
600	-32.95	-98.61	14.25	117.51	-19.07	-47.36	-38.93	-108.79	1.16	0.57	33.36	17.33	4.56
700	-29.66	-103.44	14.20	107.21	-19.10	-55.28	-37.06	-115.69	1.16	0.57	33.27	17.36	4.72
800	-30.24	-111.07	14.14	97.04	-19.13	-63.01	-35.43	-116.10	1.17	0.56	33.06	17.18	4.63
900	-27.74	-120.68	14.09	86.86	-19.14	-70.99	-34.36	-118.81	1.17	0.56	32.88	17.25	4.70
1000	-28.80	-127.95	14.03	76.66	-19.16	-78.96	-34.14	-127.02	1.18	0.55	32.46	17.11	4.62
1100	-27.14	-144.95	13.99	66.53	-19.21	-86.92	-33.04	-133.50	1.18	0.55	32.08	16.94	4.70
1200	-26.89	-145.98	13.92	56.45	-19.26	-94.66	-32.13	-140.52	1.19	0.54	31.69	16.80	4.71
1300	-26.13	-165.47	13.86	46.38	-19.29	-102.66	-31.58	-147.44	1.20	0.54	31.21	16.58	4.69
1400	-25.23	-167.43	13.79	36.39	-19.32	-110.63	-30.83	-156.72	1.21	0.53	30.78	16.53	4.81
1500	-24.78	179.06	13.73	26.25	-19.39	-118.54	-30.17	-165.83	1.22	0.52	30.62	16.38	4.85
1600	-23.85	172.61	13.66	16.26	-19.44	-126.41	-29.37	-174.10	1.23	0.51	30.85	16.21	4.81
1700	-24.15	161.20	13.61	6.22	-19.50	-134.33	-28.54	176.22	1.23	0.51	30.71	16.16	4.75
1800	-22.82	152.25	13.54	-3.74	-19.55	-142.37	-27.77	166.42	1.24	0.50	30.03	15.97	4.90
1900	-22.66	145.18	13.48	-13.71	-19.61	-150.35	-26.73	156.78	1.25	0.49	29.58	15.85	4.82
2000	-21.77	134.97	13.42	-23.55	-19.68	-158.18	-25.68	148.16	1.26	0.49	29.28	15.71	4.66
2100	-21.53	129.12	13.33	-33.64	-19.75	-166.23	-24.95	139.85	1.28	0.48	28.96	15.51	4.89
2200	-20.98	119.11	13.28	-43.61	-19.82	-174.08	-24.01	130.79	1.29	0.47	28.55	15.29	4.73
2300	-20.38	111.04	13.19	-53.38	-19.88	177.77	-23.18	123.35	1.30	0.47	28.14	15.05	4.82
2400	-19.95	102.66	13.10	-63.47	-19.96	169.72	-22.43	115.43	1.31	0.46	27.70	14.81	4.90
2500	-19.22	94.93	13.04	-73.11	-20.04	161.84	-21.61	107.60	1.33	0.45	27.21	14.60	4.75
2600	-18.87	86.78	12.96	-83.09	-20.15	153.70	-21.07	99.97	1.34	0.44	26.90	14.36	4.94
2700	-18.30	77.76	12.91	-92.75	-20.19	145.77	-20.29	91.86	1.35	0.44	26.72	14.18	4.84
2800	-17.93	69.24	12.80	-102.57	-20.32	137.60	-19.86	85.08	1.37	0.43	26.29	14.06	4.92
2900	-17.48	60.40	12.75	-112.54	-20.37	129.61	-19.25	76.66	1.38	0.42	26.12	13.85	4.98
3000	-17.09	51.86	12.67	-122.25	-20.47	121.52	-18.86	68.70	1.40	0.42	25.90	13.61	4.79
3100	-16.68	43.16	12.60	-132.01	-20.57	113.42	-18.41	61.66	1.42	0.41	25.58	13.24	5.07
3200	-16.28	34.22	12.52	-141.51	-20.68	105.29	-17.99	54.69	1.44	0.40	25.33	13.02	4.84
3300	-15.87	26.29	12.44	-151.33	-20.77	97.29	-17.67	47.35	1.45	0.40	25.07	12.96	5.02
3400	-15.59	17.14	12.39	-161.00	-20.84	89.15	-17.29	40.22	1.47	0.39	24.85	12.68	5.04
3500	-15.25	8.39	12.30	-170.75	-20.96	80.79	-17.10	33.08	1.49	0.39	24.54	12.51	4.91
3600	-15.08	-0.25	12.26	179.49	-21.04	72.80	-16.75	24.95	1.50	0.38	24.27	12.19	5.14
3700	-14.79	-7.98	12.17	170.11	-21.15	64.42	-16.59	18.01	1.53	0.38	24.04	11.86	4.95
3800	-14.73	-16.35	12.11	160.32	-21.24	56.21	-16.45	9.61	1.55	0.37	23.80	11.66	5.24
4000	-14.45	-32.44	11.99	140.98	-21.46	39.88	-16.22	-5.08	1.59	0.36	23.35	11.13	5.08

TYPE: MMIC Amplifier
 MODEL: GALI-4 Reference Data: RDF-1245F
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 52mA, Vd = 4.16V @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			
50	-30.47	4.10	14.38	174.22	-18.92	-4.63	-33.40	4.34	1.14	0.59	32.65	16.20	4.37
100	-33.62	-6.78	14.37	169.01	-18.87	-8.15	-37.11	0.73	1.14	0.60	32.46	16.30	4.59
200	-36.47	-43.20	14.33	158.68	-18.93	-16.15	-44.59	-19.20	1.14	0.59	32.65	16.23	4.36
300	-32.27	-50.68	14.28	148.27	-18.93	-23.96	-38.18	-51.94	1.15	0.59	32.29	16.17	4.78
400	-30.98	-67.06	14.22	137.91	-18.95	-31.79	-34.91	-60.81	1.15	0.58	31.89	16.26	4.51
500	-29.66	-71.31	14.18	127.60	-18.97	-39.64	-34.28	-72.43	1.16	0.58	31.49	16.07	4.64
600	-30.36	-87.79	14.13	117.38	-18.98	-47.49	-34.02	-84.23	1.16	0.57	31.20	16.10	4.49
700	-27.69	-96.20	14.08	107.04	-18.99	-55.22	-32.84	-94.43	1.16	0.57	31.30	16.11	4.64
800	-28.10	-103.95	14.01	96.87	-19.02	-63.23	-31.64	-100.60	1.17	0.56	31.29	15.99	4.56
900	-26.16	-115.16	13.95	86.67	-19.06	-71.17	-30.84	-107.26	1.18	0.56	31.22	16.09	4.63
1000	-26.96	-122.30	13.91	76.43	-19.06	-79.19	-30.68	-116.06	1.18	0.55	30.91	15.96	4.55
1100	-25.69	-139.06	13.86	66.32	-19.11	-87.08	-30.05	-124.56	1.19	0.55	30.53	15.80	4.61
1200	-25.32	-141.52	13.80	56.15	-19.17	-94.87	-29.35	-132.89	1.19	0.54	30.21	15.66	4.64
1300	-24.80	-160.02	13.73	46.11	-19.19	-102.86	-28.95	-141.05	1.20	0.53	29.82	15.54	4.63
1400	-23.95	-163.48	13.66	36.02	-19.24	-110.78	-28.35	-150.68	1.21	0.53	29.38	15.50	4.72
1500	-23.65	-176.90	13.60	25.90	-19.29	-118.80	-27.92	-160.17	1.22	0.52	29.26	15.38	4.78
1600	-22.76	175.94	13.54	15.87	-19.35	-126.69	-27.36	-169.34	1.23	0.51	29.55	15.31	4.69
1700	-23.01	164.91	13.49	5.76	-19.41	-134.65	-26.61	-179.01	1.24	0.51	29.62	15.28	4.67
1800	-21.86	155.36	13.41	-4.20	-19.46	-142.71	-26.07	-170.85	1.25	0.50	29.01	15.11	4.82
1900	-21.69	147.80	13.35	-14.19	-19.51	-150.60	-25.19	160.70	1.25	0.49	28.53	15.01	4.75
2000	-20.87	137.51	13.28	-24.02	-19.58	-158.67	-24.39	151.59	1.26	0.49	28.27	14.88	4.58
2100	-20.61	131.24	13.20	-34.21	-19.66	-166.52	-23.70	142.92	1.28	0.48	27.95	14.68	4.82
2200	-20.12	121.00	13.14	-44.19	-19.72	-174.53	-22.93	133.56	1.29	0.47	27.57	14.50	4.65
2300	-19.58	112.67	13.05	-53.99	-19.79	-177.42	-22.16	125.71	1.30	0.46	27.19	14.27	4.75
2400	-19.19	104.06	12.98	-64.11	-19.87	169.37	-21.52	117.47	1.31	0.46	26.78	14.00	4.80
2500	-18.50	96.10	12.91	-73.80	-19.95	161.52	-20.79	109.28	1.33	0.45	26.29	13.77	4.70
2600	-18.18	87.73	12.82	-83.75	-20.05	153.17	-20.31	101.47	1.34	0.44	25.99	13.53	4.86
2700	-17.60	78.49	12.77	-93.46	-20.11	145.35	-19.60	93.17	1.35	0.44	25.87	13.36	4.76
2800	-17.27	69.91	12.67	-103.27	-20.22	137.28	-19.19	86.10	1.37	0.43	25.40	13.23	4.82
2900	-16.85	60.82	12.62	-113.32	-20.29	129.12	-18.64	77.49	1.38	0.42	25.25	13.05	4.88
3000	-16.51	52.21	12.53	-123.04	-20.37	120.94	-18.28	69.47	1.40	0.42	25.02	12.79	4.71
3100	-16.10	43.43	12.46	-132.84	-20.48	112.91	-17.88	62.31	1.42	0.41	24.71	12.47	4.98
3200	-15.72	34.42	12.38	-142.36	-20.59	104.86	-17.48	55.05	1.44	0.40	24.46	12.22	4.72
3300	-15.34	26.26	12.30	-152.28	-20.67	96.72	-17.17	47.71	1.45	0.40	24.19	12.15	4.93
3400	-15.10	17.05	12.25	-161.87	-20.76	88.58	-16.84	40.44	1.47	0.39	23.95	11.92	4.93
3500	-14.76	8.24	12.15	-171.65	-20.87	80.24	-16.66	33.16	1.49	0.39	23.66	11.62	4.81
3600	-14.58	-0.54	12.12	178.53	-20.94	72.17	-16.35	24.97	1.50	0.38	23.36	11.38	5.03
3700	-14.33	-8.48	12.02	169.10	-21.07	63.83	-16.19	17.93	1.53	0.37	23.13	11.10	4.84
3800	-14.26	-16.85	11.97	159.30	-21.16	55.60	-16.06	9.55	1.55	0.37	22.88	10.85	5.14
4000	-14.02	-33.15	11.84	139.91	-21.37	39.27	-15.89	-5.26	1.59	0.36	22.44	10.35	4.96

TYPE: MMIC Amplifier
 MODEL: GALI-4 Reference Data: RDF-1245F
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 78mA, Vd = 4.43V @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			
50	-36.01	19.12	14.59	174.25	-19.10	-4.36	-47.70	64.80	1.14	0.59	37.32	17.83	4.50
100	-46.12	9.27	14.58	169.02	-19.06	-8.15	-44.47	142.94	1.14	0.60	37.34	17.88	4.76
200	-44.28	-128.67	14.53	158.76	-19.07	-16.19	-38.27	161.07	1.14	0.59	36.96	17.99	4.51
300	-39.25	-81.21	14.49	148.38	-19.08	-23.77	-41.84	-173.58	1.14	0.59	36.15	18.10	4.94
400	-36.02	-94.29	14.44	138.10	-19.10	-31.62	-43.26	-140.10	1.15	0.58	35.58	18.26	4.63
500	-34.35	-88.88	14.38	127.79	-19.12	-39.46	-42.39	-137.14	1.15	0.58	35.10	18.05	4.79
600	-34.84	-111.71	14.34	117.59	-19.15	-47.31	-41.28	-146.76	1.16	0.57	34.56	17.96	4.62
700	-31.03	-110.42	14.28	107.38	-19.16	-55.16	-39.51	-142.96	1.16	0.57	34.29	17.93	4.79
800	-31.67	-118.27	14.22	97.17	-19.19	-62.93	-38.16	-134.55	1.17	0.56	33.85	17.68	4.70
900	-28.91	-125.97	14.17	87.02	-19.21	-70.93	-37.18	-132.57	1.17	0.56	33.52	17.83	4.78
1000	-30.15	-133.71	14.11	76.78	-19.23	-78.76	-36.89	-140.05	1.18	0.55	33.12	17.66	4.69
1100	-28.16	-150.42	14.07	66.75	-19.27	-86.73	-35.70	-143.52	1.18	0.55	32.68	17.53	4.76
1200	-27.93	-149.91	14.00	56.61	-19.31	-94.52	-34.56	-147.80	1.19	0.54	32.33	17.38	4.78
1300	-26.98	-170.23	13.93	46.64	-19.35	-102.43	-33.86	-153.61	1.20	0.54	31.78	17.09	4.76
1400	-26.08	-170.88	13.87	36.61	-19.39	-110.36	-32.78	-161.90	1.21	0.53	31.44	17.04	4.88
1500	-25.59	175.20	13.80	26.54	-19.45	-118.37	-32.01	-170.55	1.22	0.52	31.25	16.87	4.95
1600	-24.61	169.56	13.74	16.51	-19.49	-126.14	-31.03	-177.82	1.22	0.52	31.36	16.70	4.89
1700	-24.88	157.84	13.69	6.51	-19.54	-134.18	-29.94	173.08	1.23	0.51	31.02	16.65	4.84
1800	-23.49	149.51	13.62	-3.41	-19.61	-142.15	-29.08	163.53	1.24	0.50	30.38	16.44	5.00
1900	-23.36	142.70	13.56	-13.39	-19.66	-150.02	-27.87	154.09	1.25	0.50	29.97	16.36	4.89
2000	-22.36	132.61	13.49	-23.20	-19.74	-157.90	-26.72	145.96	1.26	0.49	29.68	16.21	4.77
2100	-22.12	127.43	13.40	-33.28	-19.82	-166.01	-25.85	138.20	1.28	0.48	29.38	16.01	5.01
2200	-21.53	117.40	13.35	-43.19	-19.88	-173.89	-24.82	129.33	1.29	0.47	28.97	15.84	4.83
2300	-20.92	109.61	13.26	-52.99	-19.95	-178.06	-23.85	122.38	1.30	0.46	28.57	15.57	4.90
2400	-20.50	101.14	13.19	-63.05	-20.01	170.10	-23.08	114.69	1.31	0.46	28.15	15.33	4.99
2500	-19.73	93.87	13.12	-72.73	-20.10	162.16	-22.22	106.91	1.33	0.45	27.65	15.17	4.85
2600	-19.39	85.81	13.03	-82.58	-20.20	154.05	-21.62	99.45	1.34	0.44	27.35	14.93	5.03
2700	-18.73	76.98	12.99	-92.29	-20.26	146.21	-20.80	91.58	1.35	0.44	27.13	14.79	4.93
2800	-18.37	68.52	12.88	-102.04	-20.36	137.99	-20.31	84.95	1.37	0.43	26.75	14.66	5.02
2900	-17.88	59.79	12.83	-112.03	-20.43	129.99	-19.67	76.64	1.38	0.42	26.57	14.48	5.07
3000	-17.51	51.32	12.76	-121.68	-20.51	121.86	-19.25	68.74	1.40	0.42	26.34	14.25	4.89
3100	-17.07	42.80	12.67	-131.41	-20.61	113.81	-18.79	61.87	1.42	0.41	26.04	13.85	5.16
3200	-16.63	33.99	12.59	-140.93	-20.73	105.71	-18.31	54.94	1.44	0.40	25.78	13.65	4.95
3300	-16.23	26.14	12.51	-150.73	-20.84	97.62	-17.97	47.76	1.46	0.40	25.53	13.56	5.10
3400	-15.94	16.97	12.47	-160.36	-20.89	89.49	-17.59	40.56	1.47	0.39	25.33	13.27	5.13
3500	-15.59	8.36	12.38	-170.11	-21.00	81.28	-17.37	33.55	1.49	0.39	25.03	13.01	5.00
3600	-15.40	-0.24	12.34	-179.82	-21.09	73.23	-17.00	25.47	1.50	0.38	24.73	12.80	5.25
3700	-15.11	-7.86	12.25	170.77	-21.23	64.79	-16.82	18.59	1.53	0.37	24.52	12.50	5.07
3800	-15.03	-16.13	12.20	161.04	-21.29	56.65	-16.67	10.16	1.54	0.37	24.26	12.27	5.37
4000	-14.77	-32.06	12.08	141.71	-21.51	40.30	-16.43	-4.43	1.59	0.36	23.83	11.75	5.21