

GALI-4F Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

TYPE: MMIC Amplifier

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

S PARAMETERS are presented in dB/deg Format

TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 50mA, Vd = 4.34V @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	-30.32	1.04	14.48	174.08	-18.87	-4.70	-34.22	1.29	1.13	0.60	32.67	15.82	3.82
100	-31.15	-11.02	14.47	168.75	-18.94	-8.55	-34.71	-9.37	1.13	0.60	32.42	15.96	4.04
200	-31.18	-29.76	14.44	158.22	-18.96	-16.64	-35.04	-21.98	1.14	0.59	32.60	15.88	3.86
300	-30.53	-42.89	14.39	147.65	-18.96	-24.67	-35.43	-38.48	1.14	0.59	32.32	15.79	4.22
400	-31.06	-65.00	14.35	137.04	-18.97	-32.87	-35.72	-53.72	1.14	0.59	31.99	15.98	3.96
500	-29.73	-71.75	14.30	126.48	-18.99	-41.06	-35.65	-68.10	1.15	0.58	31.67	15.78	4.07
600	-30.55	-88.45	14.24	115.98	-19.01	-49.12	-35.61	-79.65	1.15	0.58	31.45	15.83	3.94
700	-28.45	-100.31	14.19	105.51	-19.03	-57.33	-35.66	-93.38	1.16	0.57	31.58	15.86	4.05
800	-29.41	-112.13	14.14	95.08	-19.05	-65.54	-35.35	-103.18	1.16	0.57	31.65	15.81	4.00
900	-27.22	-124.55	14.09	84.60	-19.07	-73.73	-34.51	-111.79	1.17	0.56	31.62	15.90	4.03
1000	-28.27	-133.04	14.03	74.17	-19.08	-82.01	-34.32	-122.05	1.17	0.56	31.34	15.77	3.98
1100	-26.86	-150.50	13.99	63.80	-19.12	-90.31	-33.62	-131.46	1.18	0.55	31.03	15.64	4.02
1200	-26.80	-152.48	13.93	53.41	-19.17	-98.31	-32.92	-142.19	1.19	0.55	30.74	15.51	4.05
1300	-26.07	-172.47	13.87	43.11	-19.21	-106.55	-32.16	-151.70	1.19	0.54	30.36	15.41	4.03
1400	-25.19	-174.20	13.81	32.84	-19.25	-114.92	-31.15	-161.88	1.20	0.53	29.97	15.41	4.14
1500	-24.75	172.01	13.74	22.42	-19.29	-123.20	-30.22	-170.95	1.21	0.53	29.86	15.30	4.20
1600	-23.84	164.66	13.68	12.16	-19.35	-131.32	-29.27	-179.42	1.22	0.52	30.14	15.27	4.13
1700	-24.00	153.21	13.63	1.90	-19.41	-139.68	-28.25	-171.81	1.22	0.51	30.29	15.27	4.08
1800	-22.54	143.80	13.57	-8.32	-19.47	-147.97	-27.33	163.34	1.23	0.51	29.80	15.14	4.21
1900	-22.30	136.16	13.50	-18.61	-19.49	-156.15	-26.24	154.77	1.24	0.50	29.35	15.04	4.13
2000	-21.30	125.96	13.44	-28.70	-19.57	-164.45	-25.21	147.12	1.25	0.50	29.14	14.97	3.98
2100	-20.98	119.96	13.36	-39.05	-19.65	-172.73	-24.40	139.61	1.26	0.49	28.85	14.80	4.19
2200	-20.35	110.06	13.31	-49.19	-19.71	179.01	-23.46	130.83	1.27	0.48	28.54	14.66	4.04
2300	-19.72	102.08	13.22	-59.31	-19.78	170.61	-22.64	123.32	1.29	0.47	28.17	14.44	4.14
2400	-19.30	93.47	13.15	-69.63	-19.87	162.35	-21.90	115.18	1.30	0.47	27.81	14.19	4.18
2500	-18.62	85.32	13.08	-79.55	-19.92	154.15	-21.16	106.61	1.31	0.46	27.31	14.05	4.07
2600	-18.30	76.78	13.00	-89.71	-20.03	145.59	-20.70	98.74	1.33	0.45	27.06	13.83	4.22
2700	-17.77	67.53	12.96	-99.66	-20.08	137.44	-20.00	89.83	1.33	0.45	26.61	13.72	4.15
2800	-17.45	58.97	12.86	-109.74	-20.18	129.01	-19.61	82.63	1.35	0.44	26.55	13.56	4.20
2900	-17.04	50.02	12.82	-119.99	-20.23	120.69	-19.07	73.56	1.36	0.43	26.33	13.40	4.27
3000	-16.70	41.47	12.75	-129.94	-20.33	112.26	-18.70	65.16	1.37	0.43	26.09	13.18	4.08
3100	-16.43	32.68	12.67	-139.93	-20.42	103.84	-18.32	57.61	1.39	0.42	25.79	12.79	4.36
3200	-16.11	23.51	12.60	-149.70	-20.52	95.51	-17.92	49.42	1.41	0.41	25.53	12.63	4.09
3300	-15.80	15.40	12.53	-159.82	-20.62	87.05	-17.67	41.12	1.42	0.41	25.27	12.48	4.28
3400	-15.64	5.78	12.49	-169.80	-20.69	78.53	-17.39	32.98	1.44	0.40	25.07	12.26	4.28
3500	-15.40	-3.71	12.40	-179.82	-20.76	69.84	-17.30	25.00	1.45	0.40	24.75	12.06	4.18
3600	-15.32	-12.70	12.38	170.21	-20.85	61.59	-16.98	16.30	1.47	0.39	24.47	11.75	4.35
3700	-15.16	-21.17	12.28	160.52	-20.98	52.75	-16.89	9.25	1.49	0.39	24.22	11.55	4.22
3800	-15.02	-30.31	12.25	150.42	-21.05	44.48	-16.71	0.02	1.51	0.38	23.95	11.29	4.45
4000	-14.80	-47.35	12.13	130.58	-21.26	27.22	-16.50	-15.86	1.55	0.37	23.54	10.84	4.31

TYPE: MMIC Amplifier
 MODEL: GALI-4F Reference Data: RDF-1245C
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 40mA, Vd = 4.24V @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	-27.42	-1.09	14.32	174.09	-18.83	-4.46	-29.76	-0.48	1.14	0.6	29.22	13.58	3.77
100	-28.01	-11.89	14.31	168.79	-18.81	-8.67	-29.93	-8.79	1.14	0.6	28.94	13.79	3.99
200	-28.15	-27.89	14.26	158.19	-18.83	-16.56	-30.23	-20.91	1.14	0.59	29.11	13.52	3.84
300	-27.56	-39.16	14.22	147.58	-18.86	-24.85	-30.38	-34.6	1.14	0.59	28.94	13.51	4.14
400	-28.23	-58.94	14.19	137.01	-18.86	-32.91	-30.72	-47.00	1.15	0.58	28.70	13.75	3.91
500	-27.20	-67.07	14.14	126.42	-18.87	-41.08	-30.72	-59.58	1.15	0.58	28.53	13.56	4.01
600	-28.00	-82.01	14.08	115.97	-18.90	-49.29	-30.74	-70.13	1.16	0.57	28.38	13.65	3.90
700	-26.33	-94.19	14.03	105.42	-18.92	-57.56	-30.82	-82.39	1.16	0.57	28.60	13.78	3.99
800	-27.12	-105.18	13.98	94.91	-18.93	-65.67	-30.71	-92.11	1.17	0.57	28.77	13.73	3.96
900	-25.52	-119.03	13.93	84.51	-18.95	-73.95	-30.23	-101.86	1.17	0.56	28.82	13.87	3.98
1000	-26.14	-126.89	13.88	74.01	-18.97	-82.16	-30.11	-112.02	1.17	0.56	28.60	13.64	3.93
1100	-25.16	-143.94	13.82	63.64	-19.02	-90.46	-29.68	-121.60	1.18	0.55	28.36	13.48	3.96
1200	-24.90	-147.08	13.77	53.24	-19.06	-98.53	-29.27	-132.66	1.19	0.55	28.12	13.40	4.02
1300	-24.57	-166.33	13.71	42.90	-19.09	-106.90	-28.90	-143.06	1.19	0.54	27.85	13.22	3.98
1400	-23.72	-169.81	13.66	32.59	-19.13	-115.10	-28.19	-153.50	1.20	0.53	27.52	13.26	4.07
1500	-23.41	176.57	13.59	22.22	-19.18	-123.44	-27.56	-163.38	1.21	0.53	27.47	13.21	4.12
1600	-22.56	168.53	13.53	11.91	-19.23	-131.61	-26.86	-172.47	1.22	0.52	27.72	13.15	4.07
1700	-22.72	157.22	13.48	1.58	-19.29	-139.95	-26.08	177.73	1.23	0.51	28.04	13.21	4.01
1800	-21.48	147.04	13.41	-8.63	-19.35	-148.26	-25.39	168.79	1.24	0.51	27.69	13.09	4.17
1900	-21.16	139.37	13.35	-18.91	-19.40	-156.41	-24.51	159.49	1.24	0.50	27.36	13.09	4.08
2000	-20.31	128.66	13.28	-29.05	-19.47	-164.80	-23.63	151.13	1.25	0.49	27.26	13.10	3.93
2100	-19.93	122.19	13.20	-39.41	-19.56	-173.17	-22.97	142.86	1.27	0.48	27.03	12.96	4.14
2200	-19.43	112.00	13.15	-49.63	-19.59	-178.65	-22.18	133.73	1.27	0.48	26.81	12.90	3.99
2300	-18.87	103.63	13.07	-59.75	-19.66	-170.32	-21.47	125.81	1.29	0.47	26.59	12.87	4.09
2400	-18.51	94.69	12.99	-70.08	-19.74	-161.91	-20.86	117.27	1.30	0.47	26.32	12.74	4.11
2500	-17.83	86.26	12.93	-80.02	-19.81	-153.78	-20.19	108.46	1.31	0.46	25.87	12.61	4.03
2600	-17.53	77.53	12.83	-90.24	-19.92	-145.23	-19.78	100.37	1.33	0.45	25.66	12.43	4.17
2700	-17.00	68.20	12.80	-100.16	-19.96	-137.03	-19.15	91.47	1.33	0.45	25.25	12.33	4.09
2800	-16.76	59.48	12.70	-110.28	-20.07	-128.47	-18.82	83.78	1.35	0.44	25.24	12.29	4.12
2900	-16.39	50.44	12.67	-120.48	-20.13	-120.22	-18.34	74.74	1.36	0.43	25.05	12.10	4.22
3000	-16.09	41.67	12.58	-130.50	-20.21	-111.77	-18.01	66.27	1.37	0.43	24.86	12.00	4.00
3100	-15.78	32.73	12.52	-140.56	-20.31	-103.29	-17.66	58.47	1.39	0.42	24.59	11.77	4.32
3200	-15.51	23.51	12.45	-150.34	-20.43	-95.04	-17.31	50.19	1.41	0.41	24.36	11.59	4.00
3300	-15.23	15.17	12.37	-160.45	-20.51	-86.56	-17.08	41.91	1.42	0.41	24.11	11.50	4.23
3400	-15.08	5.54	12.34	-170.40	-20.57	-78.09	-16.81	33.63	1.43	0.40	23.92	11.35	4.23
3500	-14.85	-4.08	12.24	-179.45	-20.65	-69.45	-16.74	25.58	1.45	0.40	23.60	11.03	4.12
3600	-14.75	-13.11	12.22	-169.48	-20.75	-61.07	-16.44	16.92	1.47	0.39	23.32	10.85	4.29
3700	-14.59	-21.73	12.13	-159.77	-20.86	-52.16	-16.36	9.71	1.49	0.39	23.05	10.58	4.15
3800	-14.50	-30.95	12.10	-149.70	-20.94	-43.86	-16.23	0.45	1.50	0.38	22.80	10.35	4.40
4000	-14.30	-48.19	11.97	-129.71	-21.14	-26.72	-16.02	-15.49	1.55	0.37	22.41	9.95	4.26

TYPE: MMIC Amplifier
 MODEL: GALI-4F Reference Data: RDF-1245C
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 60mA, Vd = 4.44V @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	-32.55	2.44	14.59	174.1	-18.97	-4.93	-39.55	9.06	1.13	0.6	35.22	17.32	3.89
100	-33.87	-11.99	14.58	168.79	-19.01	-8.53	-39.71	-5.18	1.13	0.6	34.99	17.39	4.09
200	-33.8	-33.24	14.54	158.21	-19.03	-16.77	-40.98	-23.66	1.14	0.6	35.1	17.31	3.93
300	-32.75	-45.6	14.49	147.69	-19.05	-24.69	-40.95	-48.12	1.14	0.59	34.69	17.26	4.26
400	-33.28	-72.58	14.44	137.10	-19.04	-32.82	-41.35	-67.93	1.14	0.59	34.24	17.39	3.99
500	-31.72	-77.08	14.39	126.57	-19.07	-40.95	-40.69	-85.67	1.15	0.58	33.78	17.19	4.13
600	-32.69	-96.35	14.35	116.10	-19.06	-49.07	-40.74	-99.72	1.15	0.58	33.45	17.17	3.99
700	-30.06	-106.19	14.30	105.64	-19.11	-57.25	-40.24	-115.55	1.16	0.57	33.44	17.19	4.14
800	-31.22	-119.43	14.24	95.20	-19.13	-65.44	-39.46	-121.67	1.16	0.57	33.40	17.09	4.06
900	-28.58	-130.61	14.20	84.77	-19.15	-73.70	-38.53	-128.86	1.17	0.57	33.26	17.17	4.09
1000	-29.76	-138.89	14.13	74.35	-19.16	-81.90	-38.21	-138.54	1.17	0.56	32.93	17.06	4.05
1100	-28.00	-156.57	14.09	64.00	-19.20	-90.08	-37.19	-146.63	1.18	0.56	32.55	16.93	4.07
1200	-28.03	-157.03	14.02	53.63	-19.25	-98.17	-36.05	-155.12	1.19	0.55	32.25	16.78	4.10
1300	-27.15	-178.20	13.96	43.34	-19.28	-106.56	-34.89	-163.41	1.19	0.54	31.80	16.62	4.09
1400	-26.31	-178.27	13.90	33.07	-19.31	-114.78	-33.37	-171.23	1.20	0.54	31.37	16.61	4.18
1500	-25.76	167.58	13.84	22.72	-19.37	-122.93	-32.40	-179.71	1.21	0.53	31.20	16.49	4.23
1600	-24.74	161.35	13.79	12.46	-19.43	-131.14	-31.13	173.69	1.21	0.52	31.47	16.41	4.18
1700	-24.91	149.29	13.73	2.17	-19.49	-139.44	-29.77	166.45	1.22	0.52	31.48	16.37	4.13
1800	-23.36	140.68	13.66	-7.98	-19.53	-147.83	-28.80	158.32	1.23	0.51	30.93	16.20	4.28
1900	-23.07	133.69	13.61	-18.21	-19.58	-155.99	-27.56	150.64	1.24	0.50	30.46	16.12	4.17
2000	-22.00	123.60	13.53	-28.32	-19.64	-164.23	-26.36	143.65	1.25	0.50	30.21	15.99	4.06
2100	-21.65	118.20	13.46	-38.65	-19.73	-172.53	-25.44	136.80	1.26	0.49	29.88	15.79	4.27
2200	-21.01	108.43	13.40	-48.78	-19.78	179.08	-24.35	128.48	1.27	0.48	29.52	15.66	4.13
2300	-20.36	100.64	13.32	-58.86	-19.85	170.89	-23.41	121.52	1.28	0.47	29.09	15.42	4.18
2400	-19.94	92.24	13.25	-69.17	-19.92	162.58	-22.65	113.40	1.30	0.47	28.76	15.18	4.24
2500	-19.19	84.33	13.18	-79.04	-20.00	154.34	-21.85	105.18	1.31	0.46	28.26	14.95	4.15
2600	-18.86	75.94	13.10	-89.24	-20.08	145.91	-21.34	97.51	1.32	0.45	27.97	14.76	4.30
2700	-18.26	66.98	13.06	-99.17	-20.13	137.73	-20.56	88.92	1.33	0.45	27.50	14.59	4.21
2800	-17.95	58.47	12.95	-109.21	-20.24	129.27	-20.14	81.76	1.35	0.44	27.44	14.45	4.27
2900	-17.54	49.74	12.92	-119.38	-20.31	120.98	-19.56	72.84	1.36	0.43	27.17	14.25	4.30
3000	-17.19	41.25	12.84	-129.34	-20.39	112.54	-19.18	64.50	1.37	0.43	26.96	14.04	4.14
3100	-16.87	32.65	12.77	-139.37	-20.48	104.12	-18.76	57.02	1.39	0.42	26.62	13.57	4.43
3200	-16.55	23.42	12.71	-149.12	-20.59	95.82	-18.33	48.89	1.41	0.41	26.36	13.44	4.19
3300	-16.24	15.56	12.64	-159.15	-20.68	87.41	-18.04	40.74	1.42	0.41	26.12	13.36	4.39
3400	-16.07	5.89	12.60	-169.09	-20.74	78.97	-17.77	32.56	1.43	0.40	25.90	13.16	4.42
3500	-15.81	-3.51	12.51	-179.14	-20.83	70.37	-17.68	24.59	1.45	0.40	25.60	12.91	4.35
3600	-15.71	-12.42	12.48	170.91	-20.92	61.92	-17.33	16.03	1.47	0.39	25.32	12.63	4.44
3700	-15.55	-20.82	12.39	161.20	-21.06	53.07	-17.21	8.90	1.49	0.38	25.07	12.34	4.30
3800	-15.42	-29.79	12.36	151.16	-21.12	44.83	-17.03	-0.22	1.50	0.38	24.82	12.10	4.56
4000	-15.19	-46.66	12.25	131.34	-21.31	27.83	-16.81	-16.08	1.54	0.37	24.40	11.60	4.42

TYPE: MMIC Amplifier
 MODEL: GALI-4F Reference Data: RDF-1245C
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 50mA, 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	-29.97	-3.81	14.62	173.99	-18.98	-5.14	-34.96	-1.86	1.13	0.61	33.39	15.98	3.19
100	-29.02	-14.04	14.61	168.53	-19.02	-8.88	-32.35	-13.25	1.13	0.6	33.1	16.05	3.37
200	-28.48	-24.77	14.58	157.73	-18.99	-17.43	-31.55	-18.44	1.13	0.6	33.24	15.89	3.29
300	-31.28	-41.19	14.54	146.82	-19.01	-25.74	-37.67	-22.91	1.14	0.6	33.08	15.9	3.52
400	-33.29	-74.22	14.50	135.92	-18.99	-34.16	-43.35	-61.66	1.14	0.60	32.85	16.14	3.31
500	-30.87	-76.01	14.45	125.05	-19.01	-42.83	-38.99	-80.08	1.14	0.59	32.56	15.91	3.38
600	-31.91	-95.96	14.42	114.29	-19.04	-51.31	-39.84	-87.93	1.14	0.59	32.33	15.97	3.29
700	-29.72	-109.79	14.37	103.43	-19.04	-59.78	-40.45	-116.22	1.15	0.58	32.50	16.06	3.38
800	-30.60	-120.90	14.31	92.67	-19.08	-68.57	-37.41	-122.90	1.15	0.58	32.58	16.05	3.34
900	-27.38	-131.88	14.27	81.86	-19.08	-77.12	-35.60	-115.47	1.16	0.57	32.59	16.15	3.35
1000	-28.03	-138.52	14.21	71.10	-19.09	-85.68	-35.23	-117.56	1.16	0.57	32.34	15.96	3.32
1100	-27.14	-155.74	14.18	60.43	-19.13	-94.33	-35.00	-130.84	1.17	0.57	32.07	15.80	3.32
1200	-27.46	-159.58	14.12	49.71	-19.17	-102.76	-34.92	-141.85	1.17	0.56	31.83	15.73	3.35
1300	-26.83	176.65	14.07	39.05	-19.20	-111.55	-35.13	-152.68	1.18	0.55	31.49	15.61	3.34
1400	-26.25	174.89	14.00	28.46	-19.24	-120.14	-34.24	-167.48	1.18	0.55	31.12	15.63	3.42
1500	-25.84	158.14	13.95	17.78	-19.27	-128.80	-33.42	-178.79	1.19	0.54	31.02	15.57	3.48
1600	-24.77	150.27	13.90	7.14	-19.33	-137.48	-32.48	173.38	1.20	0.54	31.29	15.54	3.42
1700	-25.02	138.90	13.84	-3.53	-19.38	-146.21	-30.85	163.30	1.21	0.53	31.50	15.58	3.38
1800	-23.44	130.48	13.79	-14.06	-19.43	-154.85	-29.40	155.70	1.21	0.52	31.05	15.46	3.50
1900	-23.19	122.49	13.73	-24.64	-19.46	-163.40	-28.29	150.08	1.22	0.52	30.66	15.39	3.38
2000	-22.11	110.29	13.67	-35.08	-19.53	-172.10	-27.48	142.11	1.23	0.51	30.50	15.37	3.27
2100	-21.78	103.52	13.60	-45.80	-19.59	179.18	-26.60	132.09	1.24	0.50	30.23	15.21	3.44
2200	-21.08	94.45	13.55	-56.22	-19.65	170.58	-25.18	123.75	1.25	0.50	29.97	15.18	3.30
2300	-20.42	86.36	13.47	-66.69	-19.71	161.78	-24.15	116.26	1.26	0.49	29.61	15.03	3.39
2400	-20.02	77.18	13.40	-77.41	-19.77	152.97	-23.45	107.33	1.27	0.48	29.25	14.87	3.40
2500	-19.19	69.38	13.34	-87.62	-19.86	144.49	-22.38	99.00	1.28	0.48	28.83	14.77	3.34
2600	-18.72	60.66	13.26	-98.19	-19.94	135.50	-21.76	91.24	1.29	0.47	28.53	14.55	3.46
2700	-18.04	52.68	13.22	-108.41	-20.00	127.04	-20.74	82.62	1.30	0.46	28.41	14.39	3.40
2800	-17.74	44.02	13.13	-118.92	-20.06	118.07	-20.23	73.67	1.31	0.46	28.19	14.26	3.44
2900	-17.30	36.30	13.10	-129.35	-20.14	109.44	-19.41	65.05	1.32	0.45	27.72	14.16	3.50
3000	-16.91	27.52	13.03	-139.69	-20.23	100.70	-19.00	57.06	1.33	0.45	27.57	14.02	3.32
3100	-16.73	18.31	12.96	-150.06	-20.31	91.92	-18.76	49.01	1.35	0.44	27.32	13.60	3.58
3200	-16.63	9.46	12.89	-160.11	-20.41	82.98	-18.43	40.32	1.37	0.43	27.05	13.42	3.31
3300	-16.37	0.80	12.83	-170.53	-20.48	74.27	-18.19	31.19	1.38	0.43	26.78	13.33	3.54
3400	-16.31	-9.70	12.80	179.11	-20.53	65.30	-18.01	22.33	1.39	0.42	26.61	13.22	3.50
3500	-15.99	-19.92	12.74	168.62	-20.60	56.50	-17.89	12.58	1.40	0.42	26.26	12.93	3.42
3600	-15.97	-28.13	12.71	158.42	-20.71	47.82	-17.40	3.44	1.41	0.41	26.03	12.64	3.53
3700	-16.03	-39.11	12.60	148.05	-20.73	38.14	-17.57	-4.90	1.43	0.41	25.80	12.46	3.45
3800	-15.78	-47.40	12.59	137.88	-20.85	29.66	-17.15	-13.25	1.44	0.40	25.47	12.22	3.66
4000	-15.76	-64.86	12.47	117.39	-21.06	11.41	-17.08	-28.77	1.49	0.39	25.05	11.72	3.52

TYPE: MMIC Amplifier
 MODEL: GALI-4F Reference Data: RDF-1245C
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 40mA, Vd = 4.45V @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	-27.83	-1.77	14.48	173.94	-18.92	-4.95	-30.66	-3.06	1.13	0.6	29.77	13.59	3.15
100	-27.03	-13.96	14.47	168.54	-18.89	-8.67	-29.12	-12.54	1.13	0.6	29.49	13.73	3.33
200	-26.57	-24.3	14.44	157.68	-18.89	-17.29	-28.54	-19.25	1.13	0.6	29.6	13.49	3.25
300	-28.66	-38.93	14.4	146.79	-18.9	-25.77	-32.39	-26.39	1.14	0.6	29.54	13.5	3.51
400	-30.27	-65.20	14.37	135.86	-18.91	-34.13	-35.02	-47.77	1.14	0.59	29.41	13.76	3.28
500	-28.47	-71.07	14.33	124.97	-18.93	-42.84	-33.40	-65.47	1.14	0.59	29.26	13.55	3.34
600	-29.43	-88.11	14.28	114.19	-18.93	-51.41	-33.84	-73.49	1.15	0.59	29.10	13.64	3.26
700	-27.83	-102.88	14.23	103.29	-18.95	-59.93	-34.61	-91.31	1.15	0.58	29.32	13.77	3.32
800	-28.43	-113.28	14.19	92.52	-18.97	-68.58	-33.00	-103.66	1.15	0.58	29.52	13.77	3.29
900	-25.87	-126.30	14.14	81.76	-18.99	-77.26	-31.53	-105.19	1.16	0.57	29.58	13.92	3.29
1000	-26.41	-133.52	14.08	70.96	-19.00	-85.83	-31.25	-110.49	1.16	0.57	29.40	13.63	3.27
1100	-25.68	-149.97	14.05	60.29	-19.03	-94.47	-31.08	-122.42	1.17	0.56	29.15	13.51	3.27
1200	-25.82	-154.78	13.99	49.54	-19.07	-102.99	-31.18	-133.15	1.17	0.56	28.97	13.39	3.32
1300	-25.44	-176.54	13.94	38.89	-19.12	-111.70	-31.17	-143.43	1.18	0.55	28.73	13.28	3.28
1400	-24.85	-179.75	13.88	28.26	-19.13	-120.29	-30.81	-157.34	1.19	0.55	28.44	13.38	3.38
1500	-24.62	-163.78	13.83	17.51	-19.18	-129.01	-30.36	-168.81	1.19	0.54	28.39	13.26	3.42
1600	-23.57	-154.94	13.78	6.86	-19.24	-137.64	-29.57	-177.88	1.20	0.53	28.63	13.29	3.35
1700	-23.86	-143.60	13.73	-3.80	-19.28	-146.35	-28.49	-170.77	1.21	0.53	28.96	13.37	3.30
1800	-22.46	-134.19	13.67	-14.35	-19.34	-155.16	-27.35	-161.80	1.21	0.52	28.68	13.25	3.44
1900	-22.22	-125.61	13.60	-24.90	-19.37	-163.65	-26.45	-154.62	1.22	0.52	28.44	13.27	3.35
2000	-21.24	-113.40	13.54	-35.40	-19.45	-172.35	-25.78	-146.16	1.23	0.51	28.37	13.23	3.23
2100	-20.89	-106.30	13.47	-46.12	-19.50	-178.83	-25.09	-136.03	1.24	0.50	28.19	13.18	3.38
2200	-20.22	-96.80	13.43	-56.64	-19.55	-170.25	-23.84	-126.99	1.25	0.50	28.03	13.22	3.26
2300	-19.62	-88.29	13.35	-67.10	-19.62	-161.42	-22.99	-118.72	1.26	0.49	27.84	13.18	3.33
2400	-19.28	-78.67	13.27	-77.78	-19.69	-152.70	-22.36	-109.55	1.27	0.48	27.60	13.15	3.35
2500	-18.51	-70.55	13.21	-88.08	-19.77	-144.02	-21.45	-100.81	1.28	0.47	27.26	13.05	3.30
2600	-18.06	-61.65	13.13	-98.64	-19.85	-135.03	-20.87	-92.77	1.29	0.47	27.03	12.95	3.39
2700	-17.41	-53.36	13.10	-108.88	-19.90	-126.76	-19.96	-83.94	1.30	0.46	26.97	12.84	3.35
2800	-17.10	-44.59	13.01	-119.36	-19.97	-117.71	-19.49	-74.96	1.31	0.46	26.66	12.77	3.39
2900	-16.69	-36.58	12.97	-129.84	-20.06	-109.14	-18.75	-66.11	1.32	0.45	26.41	12.73	3.45
3000	-16.35	-27.65	12.90	-140.20	-20.15	-100.37	-18.38	-57.94	1.34	0.45	26.29	12.75	3.25
3100	-16.16	-18.32	12.84	-150.58	-20.23	-91.41	-18.14	-49.80	1.35	0.44	26.04	12.40	3.54
3200	-16.05	-9.39	12.77	-160.69	-20.33	-82.59	-17.86	-41.05	1.37	0.43	25.86	12.36	3.26
3300	-15.84	0.56	12.71	-171.11	-20.40	-73.74	-17.65	-31.82	1.38	0.43	25.60	12.34	3.48
3400	-15.79	-9.96	12.68	-178.52	-20.45	-64.85	-17.51	-22.93	1.39	0.42	25.43	12.21	3.45
3500	-15.50	-20.26	12.61	-168.05	-20.51	-56.06	-17.37	-13.34	1.40	0.42	25.10	12.00	3.36
3600	-15.46	-28.63	12.60	-157.80	-20.61	-47.31	-16.92	-4.03	1.41	0.41	24.87	11.74	3.46
3700	-15.51	-39.60	12.48	-147.40	-20.65	-37.76	-17.07	-4.25	1.43	0.41	24.61	11.54	3.40
3800	-15.27	-48.03	12.47	-137.16	-20.78	-29.18	-16.68	-12.81	1.45	0.40	24.30	11.23	3.58
4000	-15.25	-65.83	12.34	-116.65	-20.96	-10.86	-16.65	-28.31	1.48	0.39	23.93	10.89	3.44

TYPE: MMIC Amplifier
 MODEL: GALI-4F Reference Data: RDF-1245C
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 60mA, Vd = 4.63V @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	-32.06	-3.03	14.71	174	-19.04	-4.99	-39.02	4.82	1.13	0.61	35.98	17.42	3.24
100	-30.64	-14.02	14.7	168.54	-19.06	-8.75	-35.52	-13.14	1.13	0.61	35.75	17.49	3.43
200	-30.13	-25.11	14.66	157.71	-19.04	-17.35	-34.24	-16.81	1.13	0.6	35.89	17.44	3.33
300	-33.4	-43.39	14.62	146.83	-19.07	-25.8	-45.06	-12.53	1.13	0.6	35.58	17.4	3.6
400	-35.59	-85.63	14.58	135.99	-19.07	-34.17	-52.10	-151.67	1.14	0.60	35.24	17.58	3.36
500	-32.73	-81.28	14.54	125.09	-19.07	-42.74	-43.76	-114.59	1.14	0.59	34.78	17.38	3.43
600	-33.80	-104.60	14.50	114.38	-19.09	-51.22	-45.27	-125.70	1.14	0.59	34.47	17.41	3.33
700	-31.20	-116.58	14.45	103.52	-19.09	-59.83	-43.02	-164.76	1.15	0.59	34.49	17.44	3.42
800	-32.17	-128.43	14.40	92.74	-19.13	-68.41	-40.25	-151.88	1.15	0.58	34.51	17.36	3.39
900	-28.41	-136.84	14.35	82.01	-19.14	-76.92	-39.10	-129.71	1.15	0.58	34.38	17.45	3.43
1000	-29.26	-143.57	14.30	71.26	-19.15	-85.63	-39.31	-129.19	1.16	0.57	34.10	17.38	3.35
1100	-28.15	-161.13	14.27	60.63	-19.18	-94.27	-38.66	-143.32	1.16	0.57	33.78	17.25	3.37
1200	-28.63	-163.87	14.20	49.87	-19.23	-102.69	-38.69	-155.73	1.17	0.56	33.50	17.13	3.39
1300	-27.70	171.18	14.14	39.26	-19.26	-111.39	-38.51	-165.49	1.18	0.55	33.09	17.01	3.37
1400	-27.17	170.78	14.09	28.65	-19.29	-120.02	-36.96	179.37	1.18	0.55	32.71	17.01	3.45
1500	-26.67	153.78	14.04	18.01	-19.32	-128.69	-35.83	169.67	1.19	0.54	32.56	16.92	3.52
1600	-25.53	146.62	13.98	7.35	-19.39	-137.32	-34.70	163.64	1.20	0.54	32.82	16.85	3.48
1700	-25.80	134.95	13.93	-3.28	-19.43	-145.98	-32.68	155.60	1.20	0.53	32.85	16.87	3.40
1800	-24.11	127.48	13.86	-13.76	-19.48	-154.66	-30.82	150.02	1.21	0.52	32.35	16.73	3.55
1900	-23.90	119.62	13.81	-24.29	-19.52	-163.19	-29.72	145.34	1.22	0.52	31.91	16.68	3.43
2000	-22.76	107.76	13.75	-34.73	-19.59	-171.84	-28.76	138.37	1.23	0.51	31.72	16.60	3.33
2100	-22.42	101.42	13.68	-45.48	-19.66	179.27	-27.79	128.85	1.24	0.50	31.40	16.47	3.50
2200	-21.65	92.81	13.63	-55.92	-19.70	170.73	-26.11	121.25	1.25	0.50	31.07	16.28	3.37
2300	-20.96	84.97	13.55	-66.30	-19.77	162.00	-25.01	114.32	1.26	0.49	30.68	16.11	3.42
2400	-20.56	75.77	13.48	-76.98	-19.84	153.28	-24.17	105.71	1.27	0.48	30.24	15.88	3.46
2500	-19.69	68.33	13.43	-87.19	-19.90	144.63	-23.07	97.62	1.28	0.48	29.79	15.66	3.39
2600	-19.24	59.77	13.35	-97.72	-20.00	135.70	-22.41	90.16	1.29	0.47	29.48	15.45	3.51
2700	-18.50	51.99	13.30	-107.94	-20.05	127.37	-21.33	81.65	1.30	0.46	29.31	15.27	3.46
2800	-18.19	43.52	13.21	-118.41	-20.11	118.30	-20.73	72.97	1.31	0.46	29.14	15.14	3.50
2900	-17.70	36.02	13.18	-128.92	-20.19	109.73	-19.84	64.40	1.32	0.45	28.61	14.97	3.55
3000	-17.31	27.31	13.12	-139.14	-20.27	100.94	-19.41	56.57	1.33	0.45	28.44	14.80	3.38
3100	-17.15	18.24	13.04	-149.55	-20.36	92.10	-19.20	48.56	1.35	0.44	28.14	14.40	3.64
3200	-17.02	9.47	12.97	-159.61	-20.47	83.32	-18.81	39.96	1.37	0.43	27.90	14.17	3.38
3300	-16.76	0.91	12.92	-169.96	-20.52	74.43	-18.55	30.84	1.38	0.43	27.60	14.08	3.58
3400	-16.69	-9.49	12.89	179.67	-20.59	65.55	-18.36	22.05	1.39	0.42	27.46	13.92	3.55
3500	-16.39	-19.75	12.83	169.24	-20.67	56.76	-18.24	12.35	1.40	0.42	27.13	13.67	3.47
3600	-16.36	-27.81	12.80	159.06	-20.76	48.06	-17.71	3.15	1.41	0.41	26.87	13.44	3.60
3700	-16.41	-38.85	12.68	148.69	-20.78	38.37	-17.90	-5.22	1.43	0.41	26.64	13.10	3.52
3800	-16.13	-46.95	12.67	138.48	-20.90	30.00	-17.43	-13.56	1.44	0.40	26.33	12.90	3.72
4000	-16.12	-64.16	12.55	118.13	-21.11	11.73	-17.37	-28.82	1.48	0.39	25.91	12.38	3.60

TYPE: MMIC Amplifier
 MODEL: GALI-4F Reference Data: RDF-1245C
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 50mA, 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	-30.13	4.49	14.38	174.21	-18.82	-4.11	-33.23	1.35	1.13	0.6	32.12	15.71	4.37
100	-32.81	-6.39	14.37	169.02	-18.83	-8.14	-36.07	-1.58	1.13	0.6	31.91	15.8	4.58
200	-35.31	-39.13	14.33	158.69	-18.88	-16.22	-41.41	-21.4	1.14	0.59	32.15	15.74	4.43
300	-31.79	-50.01	14.27	148.33	-18.9	-23.85	-37.06	-52.11	1.14	0.59	31.79	15.68	4.76
400	-30.60	-65.42	14.22	138.00	-18.91	-31.62	-34.07	-59.34	1.15	0.58	31.40	15.84	4.51
500	-29.25	-70.07	14.17	127.67	-18.92	-39.43	-33.65	-70.22	1.15	0.58	31.05	15.61	4.65
600	-29.82	-86.15	14.12	117.48	-18.94	-47.25	-33.40	-81.79	1.16	0.57	30.78	15.63	4.49
700	-27.32	-95.06	14.07	107.25	-18.96	-55.20	-32.27	-92.42	1.16	0.57	30.88	15.67	4.62
800	-27.69	-103.29	14.00	97.06	-18.99	-63.00	-31.11	-99.02	1.17	0.56	30.93	15.58	4.56
900	-25.83	-114.40	13.95	86.85	-19.03	-70.90	-30.32	-105.89	1.17	0.56	30.83	15.68	4.63
1000	-26.58	-121.78	13.89	76.69	-19.03	-78.77	-30.28	-114.94	1.18	0.55	30.55	15.52	4.55
1100	-25.39	-138.02	13.85	66.62	-19.08	-86.70	-29.55	-123.21	1.18	0.55	30.20	15.36	4.59
1200	-25.06	-140.70	13.78	56.45	-19.13	-94.46	-29.02	-131.55	1.19	0.54	29.89	15.26	4.64
1300	-24.58	-159.02	13.72	46.46	-19.17	-102.47	-28.58	-139.81	1.20	0.53	29.49	15.14	4.62
1400	-23.76	-162.31	13.65	36.40	-19.21	-110.38	-28.07	-149.50	1.21	0.53	29.09	15.11	4.72
1500	-23.38	-175.41	13.59	26.31	-19.26	-118.24	-27.48	-159.10	1.22	0.52	28.97	15.01	4.77
1600	-22.61	176.94	13.53	16.30	-19.32	-126.13	-26.96	-168.26	1.22	0.52	29.26	14.93	4.72
1700	-22.87	165.58	13.47	6.21	-19.38	-134.13	-26.40	-178.22	1.23	0.51	29.34	14.90	4.68
1800	-21.68	156.07	13.41	-3.68	-19.43	-142.13	-25.82	-172.19	1.24	0.50	28.78	14.72	4.81
1900	-21.50	148.61	13.35	-13.64	-19.48	-149.90	-24.99	162.19	1.25	0.50	28.32	14.66	4.75
2000	-20.66	138.35	13.28	-23.47	-19.57	-157.86	-24.11	153.36	1.26	0.49	28.08	14.48	4.59
2100	-20.42	131.57	13.19	-33.65	-19.63	-165.90	-23.56	144.08	1.28	0.48	27.71	14.32	4.82
2200	-19.91	121.75	13.14	-43.46	-19.70	-173.83	-22.69	135.08	1.29	0.47	27.38	14.17	4.63
2300	-19.38	113.60	13.04	-53.30	-19.77	178.15	-21.99	127.00	1.30	0.46	26.99	13.91	4.75
2400	-18.99	104.53	12.97	-63.41	-19.84	170.14	-21.34	118.60	1.31	0.46	26.60	13.65	4.81
2500	-18.32	96.82	12.91	-73.03	-19.91	162.26	-20.64	110.42	1.32	0.45	26.11	13.51	4.69
2600	-18.02	88.02	12.82	-82.99	-20.02	154.05	-20.22	102.24	1.34	0.44	25.83	13.28	4.87
2700	-17.45	79.27	12.77	-92.64	-20.08	146.31	-19.48	94.41	1.35	0.44	25.67	13.05	4.76
2800	-17.18	69.92	12.66	-102.60	-20.18	138.04	-19.17	86.88	1.37	0.43	25.20	12.89	4.83
2900	-16.69	61.51	12.62	-112.41	-20.26	130.16	-18.56	78.62	1.38	0.42	25.09	12.70	4.92
3000	-16.29	52.72	12.56	-122.14	-20.36	122.21	-18.12	70.31	1.39	0.42	24.87	12.54	4.70
3100	-15.97	43.84	12.47	-131.95	-20.44	113.98	-17.81	63.24	1.41	0.41	24.59	12.16	5.00
3200	-15.65	35.09	12.38	-141.48	-20.57	105.92	-17.44	56.45	1.43	0.40	24.32	11.89	4.72
3300	-15.22	26.84	12.30	-151.26	-20.66	97.96	-17.07	48.42	1.45	0.40	24.05	11.81	4.94
3400	-14.96	17.40	12.26	-160.98	-20.73	89.78	-16.77	40.92	1.46	0.39	23.85	11.55	4.95
3500	-14.57	8.18	12.18	-170.80	-20.81	81.74	-16.58	33.09	1.48	0.39	23.52	11.24	4.81
3600	-14.40	-0.23	12.14	179.51	-20.91	73.68	-16.23	25.59	1.49	0.38	23.24	11.04	5.05
3700	-14.29	-8.28	12.00	170.00	-21.01	64.73	-16.27	18.64	1.52	0.38	23.01	10.80	4.84
3800	-14.05	-16.71	11.98	160.22	-21.11	57.28	-15.96	9.80	1.54	0.37	22.73	10.59	5.16
4000	-13.88	-32.41	11.84	141.05	-21.35	40.50	-15.77	-4.22	1.59	0.36	22.29	10.15	4.97

TYPE: MMIC Amplifier
 MODEL: GALI-4F Reference Data: RDF-1245C
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 40mA, Vd = 4.05V @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	-27	1.63	14.2	174.26	-18.82	-4.85	-28.73	-0.91	1.14	0.59	28.81	13.72	4.34
100	-28.81	-8.55	14.19	169.02	-18.7	-8.05	-30.44	-5.03	1.14	0.6	28.57	13.92	4.53
200	-30.63	-31.84	14.13	158.63	-18.74	-16.05	-32.88	-21.05	1.14	0.59	28.79	13.76	4.39
300	-28.47	-43.57	14.09	148.23	-18.75	-23.86	-31.18	-39.8	1.15	0.59	28.54	13.68	4.68
400	-27.58	-57.99	14.03	137.92	-18.79	-31.77	-29.39	-50.46	1.15	0.58	28.28	13.89	4.47
500	-26.55	-65.16	13.99	127.62	-18.80	-39.62	-29.04	-60.77	1.16	0.58	28.06	13.69	4.58
600	-27.08	-79.09	13.94	117.38	-18.82	-47.38	-29.08	-71.77	1.16	0.57	27.89	13.76	4.43
700	-25.25	-89.71	13.88	107.15	-18.83	-55.29	-28.49	-82.73	1.16	0.57	28.08	13.84	4.58
800	-25.42	-98.08	13.83	96.92	-18.87	-63.18	-27.56	-90.84	1.17	0.56	28.21	13.75	4.53
900	-23.95	-109.80	13.77	86.77	-18.91	-71.10	-27.11	-99.06	1.18	0.56	28.25	13.94	4.59
1000	-24.62	-117.58	13.72	76.55	-18.91	-78.99	-27.16	-108.66	1.18	0.55	28.01	13.63	4.53
1100	-23.74	-133.36	13.66	66.40	-18.96	-86.95	-26.72	-117.41	1.19	0.55	27.73	13.48	4.56
1200	-23.44	-137.44	13.60	56.27	-18.99	-94.71	-26.31	-126.43	1.19	0.54	27.49	13.44	4.59
1300	-23.02	-154.31	13.53	46.22	-19.04	-102.77	-25.92	-134.84	1.20	0.53	27.22	13.29	4.59
1400	-22.27	-159.13	13.48	36.16	-19.08	-110.56	-25.52	-144.73	1.21	0.53	26.83	13.33	4.68
1500	-21.99	-171.76	13.42	26.05	-19.13	-118.56	-25.19	-154.50	1.22	0.52	26.80	13.20	4.73
1600	-21.31	179.87	13.34	16.02	-19.19	-126.45	-24.79	-163.74	1.23	0.51	27.08	13.16	4.68
1700	-21.53	168.97	13.30	5.93	-19.26	-134.48	-24.33	-173.74	1.24	0.51	27.34	13.22	4.63
1800	-20.50	158.95	13.23	-3.98	-19.31	-142.43	-23.94	-176.26	1.25	0.50	26.92	13.05	4.75
1900	-20.37	151.02	13.17	-14.03	-19.36	-150.26	-23.36	166.18	1.25	0.49	26.55	12.98	4.69
2000	-19.63	140.46	13.10	-23.82	-19.42	-158.28	-22.66	156.91	1.26	0.49	26.40	12.94	4.55
2100	-19.44	133.19	13.02	-33.99	-19.50	-166.41	-22.17	147.34	1.28	0.48	26.12	12.78	4.78
2200	-18.91	123.56	12.95	-43.92	-19.57	-174.18	-21.40	138.14	1.29	0.47	25.87	12.72	4.60
2300	-18.41	114.99	12.87	-53.72	-19.65	177.72	-20.79	129.85	1.30	0.46	25.58	12.58	4.72
2400	-18.07	105.85	12.80	-63.90	-19.72	169.73	-20.24	121.11	1.31	0.46	25.27	12.38	4.81
2500	-17.50	97.81	12.73	-73.46	-19.80	161.87	-19.67	112.62	1.32	0.45	24.83	12.27	4.64
2600	-17.24	88.67	12.64	-83.55	-19.90	153.56	-19.31	104.18	1.34	0.44	24.58	12.03	4.81
2700	-16.72	79.83	12.60	-93.17	-19.97	145.92	-18.62	96.07	1.35	0.44	24.42	11.92	4.72
2800	-16.43	70.44	12.48	-103.13	-20.04	137.58	-18.35	88.47	1.37	0.43	24.01	11.84	4.74
2900	-15.98	61.89	12.46	-113.00	-20.14	129.72	-17.78	80.10	1.38	0.42	23.93	11.71	4.86
3000	-15.61	52.92	12.38	-122.74	-20.22	121.61	-17.43	71.61	1.39	0.42	23.76	11.53	4.64
3100	-15.32	43.92	12.28	-132.61	-20.33	113.48	-17.12	64.36	1.41	0.41	23.47	11.10	4.95
3200	-15.01	35.09	12.20	-142.09	-20.46	105.24	-16.78	57.41	1.44	0.40	23.24	10.99	4.67
3300	-14.60	26.62	12.13	-151.91	-20.52	97.48	-16.43	49.28	1.45	0.40	22.97	10.93	4.88
3400	-14.37	17.24	12.09	-161.70	-20.60	89.14	-16.19	41.70	1.46	0.40	22.77	10.65	4.88
3500	-14.03	7.94	11.99	-171.54	-20.69	81.13	-16.04	33.77	1.48	0.39	22.44	10.40	4.78
3600	-13.88	-0.51	11.95	178.80	-20.79	73.03	-15.71	26.06	1.49	0.39	22.17	10.17	4.97
3700	-13.78	-8.77	11.81	169.25	-20.89	64.17	-15.72	19.12	1.53	0.38	21.94	9.95	4.78
3800	-13.54	-17.31	11.80	159.51	-20.98	56.60	-15.45	10.31	1.54	0.37	21.65	9.66	5.09
4000	-13.41	-33.24	11.64	140.20	-21.21	39.77	-15.32	-3.90	1.59	0.36	21.25	9.30	4.92

TYPE: MMIC Amplifier
 MODEL: GALI-4F Reference Data: RDF-1245C
 S PARAMETERS are presented in dB/deg Format
 TEST CONDITIONS: INPUT POWER = -15dBm, Icc = 60mA, Vd = 4.26V @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	-32.95	7.03	14.49	174.2	-18.97	-4.69	-37.78	11.03	1.14	0.6	34.56	17	4.41
100	-36.74	-5.3	14.49	169.03	-18.95	-8.17	-43.89	10.34	1.13	0.6	34.39	17.07	4.64
200	-40.17	-56.72	14.44	158.69	-18.95	-15.9	-56.16	170.7	1.14	0.59	34.57	17.03	4.48
300	-34.82	-57.68	14.38	148.32	-18.99	-23.86	-44.33	-86.65	1.14	0.59	34.07	16.96	4.79
400	-33.12	-73.91	14.33	138.08	-18.99	-31.52	-38.76	-76.95	1.15	0.58	33.60	17.07	4.56
500	-31.36	-75.77	14.28	127.74	-19.00	-39.40	-37.72	-85.81	1.15	0.58	33.05	16.84	4.70
600	-32.04	-94.21	14.23	117.57	-19.03	-47.15	-37.47	-98.53	1.16	0.58	32.67	16.79	4.53
700	-28.95	-100.74	14.17	107.35	-19.06	-55.07	-35.69	-106.44	1.16	0.57	32.66	16.81	4.70
800	-29.36	-108.55	14.12	97.19	-19.07	-62.83	-33.94	-108.85	1.17	0.57	32.57	16.66	4.61
900	-27.17	-118.62	14.05	87.02	-19.10	-70.74	-33.07	-113.97	1.17	0.56	32.38	16.75	4.68
1000	-28.09	-126.08	14.00	76.83	-19.12	-78.74	-33.01	-123.34	1.18	0.56	32.01	16.61	4.61
1100	-26.61	-142.73	13.96	66.76	-19.16	-86.60	-32.19	-130.68	1.18	0.55	31.64	16.45	4.65
1200	-26.34	-143.97	13.89	56.65	-19.21	-94.31	-31.28	-137.52	1.19	0.54	31.30	16.33	4.69
1300	-25.68	-163.38	13.83	46.64	-19.25	-102.31	-30.69	-144.91	1.20	0.54	30.83	16.10	4.69
1400	-24.83	-165.35	13.76	36.66	-19.29	-110.13	-29.94	-153.93	1.21	0.53	30.39	16.12	4.77
1500	-24.37	-178.71	13.70	26.61	-19.33	-118.09	-29.32	-163.82	1.21	0.52	30.23	15.96	4.85
1600	-23.53	174.23	13.64	16.56	-19.40	-125.93	-28.66	-172.23	1.22	0.52	30.48	15.85	4.78
1700	-23.82	162.69	13.59	6.56	-19.46	-133.91	-27.88	178.31	1.23	0.51	30.42	15.75	4.72
1800	-22.51	153.41	13.51	-3.31	-19.53	-141.91	-27.22	168.37	1.24	0.50	29.79	15.58	4.88
1900	-22.34	146.41	13.45	-13.33	-19.56	-149.67	-26.30	158.91	1.25	0.50	29.28	15.48	4.80
2000	-21.41	136.29	13.39	-23.12	-19.64	-157.58	-25.25	150.49	1.26	0.49	29.03	15.34	4.64
2100	-21.20	129.86	13.30	-33.23	-19.70	-165.68	-24.58	141.27	1.27	0.48	28.65	15.11	4.87
2200	-20.63	120.29	13.24	-43.09	-19.77	-173.59	-23.58	132.76	1.28	0.47	28.27	14.92	4.71
2300	-20.04	112.30	13.15	-52.90	-19.85	178.42	-22.79	125.14	1.30	0.47	27.83	14.71	4.81
2400	-19.63	103.44	13.09	-62.96	-19.92	170.44	-22.09	116.69	1.31	0.46	27.43	14.40	4.90
2500	-18.94	95.89	13.02	-72.54	-20.00	162.53	-21.35	108.88	1.32	0.45	26.94	14.24	4.73
2600	-18.63	87.13	12.93	-82.45	-20.09	154.34	-20.90	100.88	1.34	0.44	26.65	13.98	4.93
2700	-18.01	78.54	12.88	-92.14	-20.16	146.78	-20.05	93.23	1.35	0.44	26.46	13.84	4.82
2800	-17.72	69.37	12.77	-102.04	-20.23	138.41	-19.73	85.91	1.37	0.43	26.03	13.69	4.88
2900	-17.21	61.08	12.74	-111.86	-20.35	130.51	-19.06	77.79	1.38	0.42	25.88	13.51	4.96
3000	-16.78	52.46	12.66	-121.58	-20.42	122.63	-18.61	69.54	1.39	0.42	25.66	13.25	4.77
3100	-16.44	43.61	12.57	-131.41	-20.50	114.40	-18.27	62.61	1.41	0.41	25.36	12.76	5.05
3200	-16.09	34.87	12.49	-140.81	-20.66	106.28	-17.85	55.94	1.43	0.40	25.09	12.63	4.82
3300	-15.64	26.83	12.43	-150.61	-20.73	98.33	-17.46	47.98	1.45	0.40	24.82	12.51	4.99
3400	-15.38	17.47	12.38	-160.31	-20.81	90.11	-17.16	40.59	1.46	0.39	24.65	12.32	5.02
3500	-14.97	8.25	12.29	-170.16	-20.88	82.05	-16.96	32.83	1.48	0.39	24.30	11.99	4.88
3600	-14.80	-0.06	12.26	-179.78	-20.99	74.18	-16.59	25.28	1.49	0.38	24.02	11.71	5.13
3700	-14.69	-8.06	12.12	170.73	-21.10	65.22	-16.60	18.42	1.52	0.38	23.79	11.51	4.93
3800	-14.43	-16.32	12.11	161.02	-21.19	57.64	-16.27	9.52	1.53	0.37	23.50	11.28	5.23
4000	-14.24	-31.84	11.96	141.83	-21.42	41.02	-16.09	-4.30	1.59	0.36	23.07	10.80	5.07