ERA-50SM Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

TYPE: MMIC Amplifier
MODEL: ERA-50SM Reference Data: RDF-1125B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 60mA, Vd = 4.40V @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	-43.71	95.11	21.58	173.45	-24.27	-3.78	-26.95	175.24	1.05	0.73	33.74	18.37	3.29
100	-42.45	91.63	21.52	167.56	-24.32	-6.00	-26.66	173.72	1.05	0.72	33.71	18.36	3.39
150	-39.93	85.11	21.48	161.78	-24.30	-9.14	-26.49	172.37	1.05	0.72	34.32	18.50	3.38
200	-37.13	77.00	21.45	155.93	-24.29	-11.71	-26.36	169.51	1.05	0.72	33.90	18.46	3.36
250	-35.22	70.86	21.40	150.04	-24.28	-14.44	-26.08	168.99	1.05	0.72	32.92	18.40	3.43
300	-34.46	65.43	21.34	144.15	-24.30	-17.78	-25.88	167.57	1.06	0.71	33.80	18.34	3.47
350	-33.15	56.55	21.28	138.31	-24.24	-20.73	-25.58	164.64	1.06	0.71	33.47	18.34	3.40
400	-32.37	50.82	21.21	132.50	-24.24	-23.27	-25.23	162.65	1.06	0.71	33.41	18.33	3.39
450	-31.13	44.77	21.15	126.75	-24.24	-26.29	-24.97	160.08	1.06	0.70	32.83	18.17	3.42
500	-30.42	40.33	21.07	120.95	-24.21	-29.43	-24.59	156.90	1.06	0.70	33.11	18.21	3.35
550	-29.81	34.18	20.99	115.25	-24.20	-32.22	-24.26	153.81	1.07	0.69	32.90	18.24	3.40
600	-29.26	28.90	20.90	109.56	-24.18	-35.24	-23.94	150.46	1.07	0.69	32.87	18.24	3.42
650	-28.59	23.31	20.82	103.88	-24.15	-38.08	-23.69	147.02	1.07	0.68	32.63	18.15	3.33
700	-28.11	17.68	20.73	98.26	-24.13	-41.06	-23.32	143.43	1.07	0.68	32.85	17.97	3.42
750	-27.72	12.89	20.63	92.68	-24.11	-44.04	-23.04	139.42	1.08	0.67	32.75	18.04	3.44
800	-27.34	7.20	20.54	87.14	-24.07	-46.85	-22.74	135.25	1.08	0.67	32.79	17.88	3.38
850	-26.99	1.62	20.44	81.58	-24.05	-49.84	-22.43	131.64	1.08	0.66	32.67	17.85	3.42
900	-26.58	-3.93	20.33	76.11	-24.04	-52.78	-22.16	127.86	1.09	0.65	32.61	17.78	3.42
940	-26.48	-7.53	20.25	71.70	-24.02	-55.32	-21.91	124.13	1.09	0.65	32.60	17.80	3.33
1000	-26.17	-15.53	20.12	65.19	-23.97	-58.79	-21.63	119.81	1.09	0.64	32.35	17.69	3.34
1050	-25.88	-20.47	20.01	59.75	-23.94	-61.90	-21.36	115.92	1.10	0.64	32.31	17.63	3.38
1100	-25.64	-26.55	19.90	54.39	-23.91	-64.71	-21.10	112.19	1.10	0.63	32.07	17.73	3.45
1150	-25.48	-32.39	19.79	49.05	-23.87	-67.79	-20.89	108.51	1.10	0.63	31.90	17.62	3.43
1200	-25.37	-37.74	19.67	43.74	-23.85	-70.78	-20.67	104.37	1.11	0.62	31.88	17.61	3.40
1250	-25.20	-43.69	19.56	38.46	-23.80	-73.79	-20.46	100.83	1.11	0.61	31.96	17.54	3.44
1300	-25.20	-48.81	19.45	33.22	-23.76	-76.81	-20.23	96.53	1.12	0.61	31.65	17.66	3.53
1350	-25.15	-54.49	19.33	28.02	-23.73	-79.75	-19.97	92.96	1.12	0.60	31.38	17.60	3.46
1400	-25.29	-60.56	19.22	22.79	-23.69	-82.89	-19.80	88.68	1.12	0.60	31.11	17.51	3.40
1450	-25.28	-66.05	19.10	17.59	-23.65	-85.94	-19.55	84.64	1.13	0.59	31.31	17.45	3.40
1500	-25.25	-71.83	18.99	12.45	-23.61	-88.93	-19.39	80.66	1.13	0.59	31.30	17.45	3.42
1550	-25.24	-78.07	18.87	7.32	-23.57	-91.96	-19.17	76.68	1.14	0.58	31.51	17.36	3.47
1600	-25.25	-85.72	18.76	2.19	-23.52	-94.99	-19.02	72.71	1.14	0.58	31.44	17.23	3.41
1650	-25.14	-90.90	18.63	-2.90	-23.49	-98.04	-18.91	68.92	1.15	0.57	31.47	17.17	3.40
1700	-25.21	-97.25	18.52	-7.92	-23.44	-101.20	-18.67	65.52	1.15	0.57	31.59	17.14	3.51
1750	-25.28	-103.33	18.40	-12.95	-23.39	-104.19	-18.56	61.38	1.15	0.56	31.07	17.03	3.43
1800	-25.42	-109.48	18.28	-18.00	-23.34	-107.44	-18.39	57.59	1.16	0.56	31.00	16.85	3.51
1850	-25.48	-115.99	18.17	-22.98	-23.29	-110.36	-18.24	53.82	1.16	0.55	30.17	16.91	3.43
1900	-25.43	-122.84	18.06	-27.90	-23.22	-113.46	-18.12	49.92	1.16	0.55	30.41	16.75	3.41
1950	-25.62	-129.31	17.94	-32.93	-23.18	-116.57	-17.96	45.95	1.17	0.54	30.04	16.42	3.36
2000	-25.58	-137.12	17.83	-37.84	-23.12	-119.70	-17.82	42.10	1.17	0.54	30.32	16.46	3.39

TYPE: MMIC Amplifier
MODEL: ERA-50SM Reference Data: RDF-1125B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 48mA, Vd = 4.35V @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	-33.44	9.47	21.34	173.48	-24.06	-3.84	-33.97	179.67	1.05	0.73	30.42	16.63	3.21
100	-33.60	8.66	21.27	167.62	-24.07	-6.06	-32.73	-179.75	1.05	0.72	30.41	16.30	3.30
150	-33.08	8.17	21.25	161.88	-24.09	-9.40	-32.80	-177.46	1.05	0.72	30.92	16.62	3.28
200	-32.46	11.78	21.21	156.02	-24.05	-12.04	-31.95	-179.06	1.05	0.72	30.66	16.53	3.29
250	-31.88	12.64	21.16	150.18	-24.07	-14.86	-31.17	-174.86	1.06	0.72	29.84	16.42	3.34
300	-31.70	10.90	21.11	144.31	-24.06	-17.66	-30.55	-175.99	1.06	0.71	30.71	16.30	3.40
350	-30.72	8.99	21.05	138.49	-24.04	-20.75	-29.83	-178.04	1.06	0.71	30.34	16.33	3.30
400	-30.49	5.98	20.99	132.72	-24.03	-23.57	-29.18	-179.92	1.06	0.70	30.41	16.43	3.30
450	-29.65	5.15	20.92	126.98	-24.01	-26.67	-28.39	176.94	1.06	0.70	29.81	16.02	3.31
500	-29.35	3.00	20.85	121.19	-24.02	-29.55	-27.79	174.55	1.07	0.69	30.24	16.19	3.29
550	-28.88	-0.70	20.77	115.53	-23.99	-32.58	-27.12	170.53	1.07	0.69	30.00	16.21	3.36
600	-28.46	-3.73	20.69	109.81	-23.98	-35.48	-26.59	166.86	1.07	0.68	30.08	16.27	3.34
650	-27.93	-6.93	20.60	104.17	-23.95	-38.54	-26.14	163.15	1.07	0.68	29.88	16.13	3.28
700	-27.58	-10.98	20.52	98.57	-23.94	-41.45	-25.55	158.73	1.08	0.67	30.11	15.82	3.35
750	-27.29	-14.27	20.43	93.00	-23.89	-44.47	-25.11	154.26	1.08	0.67	30.08	16.20	3.35
800	-26.97	-18.63	20.33	87.47	-23.88	-47.40	-24.70	149.63	1.08	0.66	30.19	15.78	3.30
850	-26.69	-22.74	20.24	81.90	-23.87	-50.41	-24.23	145.42	1.08	0.66	30.19	15.78	3.33
900	-26.31	-27.22	20.14	76.42	-23.83	-53.41	-23.84	141.01	1.09	0.65	30.10	15.71	3.28
940	-26.24	-30.55	20.06	72.04	-23.81	-55.82	-23.48	136.78	1.09	0.65	30.28	15.74	3.27
1000	-25.89	-37.20	19.93	65.51	-23.78	-59.44	-23.05	131.67	1.09	0.64	29.97	15.64	3.26
1050	-25.65	-41.18	19.83	60.09	-23.76	-62.47	-22.72	127.71	1.10	0.64	30.31	15.46	3.33
1100	-25.41	-46.30	19.72	54.72	-23.72	-65.53	-22.35	123.36	1.10	0.63	29.88	15.87	3.38
1150	-25.22	-51.87	19.61	49.38	-23.68	-68.45	-22.05	119.50	1.10	0.63	29.98	15.55	3.32
1200	-25.10	-56.43	19.50	44.06	-23.67	-71.40	-21.77	114.94	1.11	0.62	29.80	15.68	3.33
1250	-24.93	-61.84	19.39	38.79	-23.61	-74.48	-21.46	110.99	1.11	0.61	30.10	15.48	3.35
1300	-24.93	-66.61	19.28	33.51	-23.59	-77.54	-21.21	106.53	1.12	0.61	29.88	15.80	3.40
1350	-24.87	-72.04	19.17	28.32	-23.55	-80.44	-20.87	102.44	1.12	0.60	29.67	15.70	3.37
1400	-24.94	-78.29	19.06	23.09	-23.50	-83.65	-20.64	97.84	1.12	0.60	29.42	15.60	3.34
1450	-24.92	-83.39	18.95	17.88	-23.48	-86.77	-20.34	93.36	1.13	0.59	29.59	15.56	3.30
1500	-24.87	-89.03	18.83	12.71	-23.44	-89.73	-20.13	89.09	1.13	0.59	29.71	15.65	3.35
1550	-24.82	-95.10	18.71	7.61	-23.40	-92.85	-19.89	84.86	1.14	0.58	29.91	15.53	3.36
1600	-24.69	-102.02	18.60	2.47	-23.36	-95.79	-19.69	80.69	1.14	0.58	29.93	15.52	3.34
1650	-24.61	-106.96	18.49	-2.64	-23.31	-98.84	-19.53	76.65	1.14	0.57	29.99	15.43	3.32
1700	-24.65	-112.85	18.37	-7.68	-23.28	-101.79	-19.26	72.79	1.15	0.57	30.28	15.61	3.44
1750	-24.67	-118.89	18.26	-12.71	-23.22	-105.07	-19.12	68.56	1.15	0.56	29.91	15.38	3.35
1800	-24.75	-125.13	18.14	-17.78	-23.18	-108.15	-18.92	64.54	1.16	0.56	29.82	15.48	3.44
1850	-24.72	-131.39	18.03	-22.78	-23.15	-111.37	-18.74	60.66	1.16	0.55	29.11	15.41	3.36
1900	-24.62	-137.89	17.92	-27.71	-23.10	-114.40	-18.59	56.36	1.16	0.55	29.21	15.46	3.31
1950	-24.76	-144.28	17.81	-32.73	-23.04	-117.49	-18.41	52.19	1.17	0.54	29.09	15.21	3.26
2000	-24.63	-151.71	17.70	-37.67	-23.01	-120.62	-18.24	48.20	1.17	0.54	29.22	15.18	3.29

TYPE: MMIC Amplifier
MODEL: ERA-50SM Reference Data: RDF-1125B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 72mA, 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	Delta	(dBm)	(dBm)	(dB)
50	-35.28	154.81	21.73	173.44	-24.43	-3.90	-24.37	175.81	1.05	0.73	36.12	19.49	3.36
100	-34.69	143.40	21.67	167.52	-24.48	-5.99	-23.95	172.74	1.05	0.72	36.11	19.67	3.43
150	-34.23	131.23	21.63	161.74	-24.42	-8.80	-23.93	169.85	1.05	0.73	36.83	19.72	3.44
200	-33.37	117.91	21.59	155.87	-24.44	-11.92	-23.87	166.48	1.05	0.72	36.19	19.67	3.43
250	-32.38	105.67	21.55	149.98	-24.38	-14.65	-23.71	165.04	1.05	0.72	35.13	19.68	3.48
300	-31.97	98.38	21.49	144.07	-24.40	-17.45	-23.60	162.60	1.05	0.72	35.90	19.55	3.51
350	-31.24	87.59	21.43	138.22	-24.40	-20.16	-23.42	159.53	1.06	0.71	35.60	19.53	3.43
400	-30.83	79.73	21.36	132.41	-24.39	-23.30	-23.24	156.66	1.06	0.71	35.42	19.47	3.46
450	-29.83	70.61	21.29	126.66	-24.38	-26.18	-23.07	153.81	1.06	0.70	34.87	19.43	3.46
500	-29.26	63.60	21.21	120.84	-24.35	-29.04	-22.79	150.55	1.06	0.70	34.95	19.40	3.45
550	-28.81	56.62	21.13	115.14	-24.35	-31.87	-22.61	147.43	1.07	0.69	34.79	19.42	3.46
600	-28.30	49.73	21.04	109.44	-24.32	-34.89	-22.39	143.82	1.07	0.69	34.62	19.39	3.48
650	-27.83	42.21	20.95	103.77	-24.32	-37.82	-22.20	140.35	1.07	0.68	34.36	19.28	3.45
700	-27.40	35.94	20.86	98.14	-24.28	-40.75	-21.94	136.90	1.07	0.68	34.49	19.20	3.47
750	-27.07	30.20	20.76	92.55	-24.24	-43.69	-21.73	132.98	1.08	0.67	34.29	19.10	3.50
800	-26.76	23.39	20.66	87.02	-24.22	-46.54	-21.50	128.86	1.08	0.67	34.27	19.09	3.44
850	-26.48	17.16	20.57	81.45	-24.19	-49.52	-21.26	125.32	1.08	0.66	34.04	18.96	3.49
900	-26.11	11.15	20.46	75.97	-24.17	-52.48	-21.07	121.45	1.09	0.65	33.97	18.91	3.49
940	-26.01	7.08	20.37	71.59	-24.14	-54.88	-20.88	118.14	1.09	0.65	33.79	18.92	3.43
1000	-25.80	-1.33	20.24	65.07	-24.11	-58.41	-20.66	113.83	1.09	0.64	33.59	18.81	3.38
1050	-25.55	-7.10	20.13	59.64	-24.07	-61.39	-20.44	110.00	1.10	0.64	33.31	18.78	3.42
1100	-25.35	-13.39	20.02	54.30	-24.03	-64.33	-20.25	106.47	1.10	0.63	33.19	18.68	3.50
1150	-25.22	-19.38	19.91	48.94	-24.00	-67.30	-20.09	102.96	1.10	0.62	32.82	18.73	3.53
1200	-25.13	-25.43	19.79	43.64	-23.98	-70.24	-19.92	98.94	1.11	0.62	32.92	18.56	3.44
1250	-25.00	-31.33	19.67	38.37	-23.93	-73.31	-19.75	95.49	1.11	0.61	32.83	18.63	3.48
1300	-25.00	-36.76	19.56	33.13	-23.88	-76.29	-19.55	91.32	1.12	0.61	32.52	18.58	3.59
1350	-24.99	-42.36	19.44	27.94	-23.85	-79.36	-19.36	87.95	1.12	0.60	32.19	18.51	3.53
1400	-25.19	-48.55	19.33	22.72	-23.80	-82.42	-19.21	83.81	1.12	0.60	31.97	18.42	3.47
1450	-25.21	-54.12	19.21	17.52	-23.76	-85.40	-18.99	79.90	1.13	0.59	32.16	18.31	3.44
1500	-25.19	-59.76	19.09	12.37	-23.73	-88.41	-18.85	75.93	1.13	0.59	32.08	18.22	3.49
1550	-25.23	-66.20	18.97	7.27	-23.68	-91.52	-18.67	72.06	1.14	0.58	32.25	18.16	3.53
1600	-25.30	-74.02	18.86	2.16	-23.64	-94.43	-18.53	68.26	1.14	0.58	32.13	17.92	3.52
1650	-25.23	-79.38	18.73	-2.92	-23.60	-97.45	-18.46	64.72	1.15	0.57	32.15	17.93	3.48
1700	-25.33	-85.44	18.62	-7.94	-23.54	-100.58	-18.24	61.42	1.15	0.57	32.14	17.75	3.63
1750	-25.48	-91.53	18.50	-12.97	-23.49	-103.62	-18.16	57.34	1.15	0.56	31.61	17.76	3.49
1800	-25.65	-97.82	18.38	-18.01	-23.46	-106.69	-18.02	53.74	1.16	0.56	31.55	17.44	3.58
1850	-25.75	-104.51	18.27	-23.00	-23.38	-109.83	-17.90	49.92	1.16	0.55	30.73	17.57	3.51
1900	-25.76	-111.30	18.15	-27.91	-23.33	-112.80	-17.77	46.18	1.16	0.55	31.03	17.33	3.50
1950	-26.00	-117.45	18.04	-32.92	-23.26	-115.94	-17.65	42.42	1.17	0.55	30.53	17.05	3.43
2000	-26.10	-125.80	17.93	-37.82	-23.24	-119.05	-17.52	38.62	1.17	0.54	30.91	17.10	3.46

TYPE: MMIC Amplifier
MODEL: ERA-50SM Reference Data: RDF-1125B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 60mA, Vd = 4.64V @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	-45.11	70.29	21.65	173.47	-24.27	-3.13	-26.98	175.81	1.04	0.74	34.51	18.56	2.89
100	-42.03	50.41	21.60	167.60	-24.33	-6.43	-27.16	175.61	1.05	0.73	34.46	18.55	2.92
150	-39.64	47.40	21.57	161.79	-24.31	-9.30	-27.37	174.15	1.05	0.73	35.04	18.71	2.93
200	-36.45	48.12	21.53	155.89	-24.32	-12.00	-27.34	171.39	1.05	0.73	34.64	18.62	2.92
250	-34.86	50.10	21.49	149.99	-24.25	-15.11	-26.80	170.11	1.05	0.73	33.74	18.58	2.95
300	-34.21	51.29	21.44	144.05	-24.28	-18.14	-26.29	167.03	1.05	0.72	34.60	18.53	3.01
350	-33.19	47.20	21.39	138.17	-24.28	-21.02	-25.80	163.66	1.05	0.72	34.25	18.53	2.89
400	-32.49	42.22	21.32	132.34	-24.25	-23.88	-25.46	161.19	1.06	0.71	34.26	18.56	2.93
450	-31.16	37.49	21.25	126.54	-24.22	-27.00	-25.27	158.86	1.06	0.71	33.70	18.34	2.91
500	-30.34	32.73	21.18	120.69	-24.21	-30.08	-24.87	156.01	1.06	0.71	34.04	18.41	2.88
550	-29.56	27.30	21.11	114.95	-24.18	-33.14	-24.61	153.33	1.06	0.70	33.85	18.41	2.94
600	-28.86	23.33	21.02	109.21	-24.17	-36.17	-24.27	149.98	1.06	0.70	33.86	18.45	2.93
650	-28.21	18.20	20.94	103.49	-24.15	-39.13	-23.98	146.40	1.07	0.69	33.64	18.35	2.87
700	-27.70	13.67	20.86	97.82	-24.13	-42.09	-23.55	142.49	1.07	0.69	33.88	18.14	2.93
750	-27.39	10.09	20.76	92.19	-24.10	-45.38	-23.20	138.12	1.07	0.68	33.79	18.31	2.94
800	-26.84	4.78	20.67	86.55	-24.07	-48.24	-22.95	132.72	1.07	0.68	33.89	18.05	2.90
850	-26.64	0.14	20.58	80.97	-24.05	-51.29	-22.54	129.32	1.08	0.67	33.77	18.06	2.95
900	-26.31	-4.74	20.47	75.44	-24.04	-54.53	-22.22	125.16	1.08	0.66	33.74	17.96	2.90
940	-26.14	-7.98	20.39	70.99	-24.00	-56.96	-21.94	121.65	1.08	0.66	33.76	17.99	2.81
1000	-25.75	-15.50	20.27	64.42	-23.96	-60.57	-21.66	117.39	1.09	0.65	33.51	17.91	2.84
1050	-25.46	-20.28	20.17	58.94	-23.93	-63.62	-21.39	113.31	1.09	0.65	33.58	17.78	2.87
1100	-25.28	-25.48	20.05	53.53	-23.89	-66.72	-21.13	109.44	1.09	0.64	33.33	18.00	2.95
1150	-25.20	-30.09	19.95	48.08	-23.86	-69.84	-20.93	104.65	1.10	0.64	33.23	17.81	2.92
1200	-25.22	-36.05	19.84	42.72	-23.83	-72.95	-20.73	100.24	1.10	0.63	33.20	17.89	2.88
1250	-25.16	-42.00	19.73	37.39	-23.77	-76.13	-20.49	96.07	1.10	0.63	33.36	17.77	2.94
1300	-25.06	-47.31	19.62	32.08	-23.75	-79.09	-20.29	91.61	1.11	0.62	33.06	17.96	3.00
1350	-24.94	-52.46	19.50	26.82	-23.71	-82.26	-19.99	88.34	1.11	0.62	32.81	17.88	2.94
1400	-24.93	-57.44	19.40	21.54	-23.67	-85.40	-19.73	84.19	1.11	0.61	32.58	17.82	2.92
1450	-24.87	-62.16	19.28	16.30	-23.63	-88.53	-19.42	80.56	1.12	0.61	32.79	17.76	2.87
1500	-25.00	-65.75	19.18	11.08	-23.58	-91.79	-19.06	76.65	1.12	0.60	32.84	17.80	2.93
1550	-24.78	-71.22	19.05	5.88	-23.56	-94.72	-19.01	71.89	1.12	0.59	33.02	17.72	2.93
1600	-25.09	-79.08	18.94	0.73	-23.49	-97.79	-18.82	67.98	1.13	0.59	32.96	17.68	2.89
1650	-25.15	-84.55	18.83	-4.43	-23.47	-101.11	-18.70	64.14	1.13	0.59	33.02	17.59	2.87
1700	-25.21	-90.92	18.71	-9.55	-23.41	-104.19	-18.55	60.16	1.13	0.58	33.23	17.65	3.01
1750	-25.25	-98.17	18.60	-14.63	-23.34	-107.49	-18.43	56.46	1.14	0.58	32.71	17.52	2.90
1800	-25.35	-103.06	18.49	-19.76	-23.31	-110.68	-18.23	52.41	1.14	0.57	32.59	17.48	3.01
1850	-25.34	-109.12	18.37	-24.81	-23.26	-113.79	-18.09	48.53	1.15	0.57	31.81	17.46	2.89
1900	-25.34	-115.43	18.26	-29.77	-23.22	-116.94	-17.92	44.78	1.15	0.56	32.10	17.38	2.91
1950	-25.73	-121.06	18.16	-34.87	-23.17	-120.26	-17.73	41.12	1.15	0.56	31.74	17.12	2.84
2000	-25.58	-129.89	18.04	-39.80	-23.11	-123.32	-17.75	37.32	1.16	0.56	32.04	17.11	2.84

TYPE: MMIC Amplifier
MODEL: ERA-50SM Reference Data: RDF-1125B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 48mA, Vd = 4.59V @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	-33.12	9.75	21.44	173.47	-24.19	-3.79	-32.92	179.41	1.05	0.73	31.14	16.63	2.84
100	-32.65	5.95	21.38	167.64	-24.13	-6.37	-32.81	-177.81	1.05	0.73	31.05	16.25	2.86
150	-31.75	4.08	21.36	161.87	-24.14	-9.27	-33.25	-174.98	1.05	0.73	31.54	16.62	2.87
200	-31.30	7.80	21.33	156.00	-24.11	-12.33	-32.70	-176.78	1.05	0.73	31.25	16.52	2.87
250	-31.08	9.37	21.29	150.10	-24.09	-14.96	-31.49	-176.28	1.05	0.72	30.48	16.39	2.91
300	-31.11	8.62	21.24	144.19	-24.07	-18.16	-30.66	-178.35	1.05	0.72	31.34	16.30	2.95
350	-30.74	8.32	21.18	138.33	-24.09	-21.16	-29.66	177.56	1.05	0.72	30.97	16.32	2.87
400	-30.40	4.80	21.13	132.50	-24.08	-24.15	-28.93	175.65	1.06	0.71	31.08	16.46	2.87
450	-29.55	4.04	21.06	126.72	-24.06	-27.16	-28.39	173.68	1.06	0.71	30.48	16.01	2.87
500	-29.00	1.69	20.99	120.88	-24.02	-30.29	-27.72	170.87	1.06	0.70	30.97	16.19	2.85
550	-28.48	-1.01	20.92	115.15	-24.03	-33.28	-27.23	168.25	1.06	0.70	30.73	16.19	2.88
600	-28.09	-3.15	20.84	109.43	-24.00	-36.49	-26.62	164.06	1.06	0.70	30.84	16.28	2.88
650	-27.50	-6.93	20.76	103.72	-23.98	-39.43	-26.16	160.50	1.07	0.69	30.65	16.15	2.85
700	-27.21	-9.29	20.67	98.05	-23.95	-42.54	-25.57	155.73	1.07	0.69	30.89	15.85	2.86
750	-27.03	-12.55	20.58	92.43	-23.92	-45.62	-25.11	150.91	1.07	0.68	30.89	16.23	2.87
800	-26.55	-16.22	20.49	86.81	-23.91	-48.70	-24.74	144.82	1.07	0.67	30.99	15.80	2.85
850	-26.43	-20.72	20.40	81.23	-23.89	-51.76	-24.21	141.13	1.08	0.67	31.02	15.83	2.85
900	-26.11	-24.28	20.31	75.70	-23.86	-54.94	-23.78	136.23	1.08	0.66	30.94	15.75	2.82
940	-26.04	-27.21	20.23	71.26	-23.84	-57.46	-23.39	132.18	1.08	0.66	31.17	15.76	2.77
1000	-25.61	-33.47	20.10	64.66	-23.79	-61.07	-22.96	127.54	1.09	0.65	30.85	15.69	2.80
1050	-25.37	-37.88	20.01	59.20	-23.77	-64.15	-22.61	123.21	1.09	0.65	31.28	15.53	2.82
1100	-25.23	-42.40	19.90	53.79	-23.74	-67.28	-22.29	119.06	1.09	0.64	30.80	15.94	2.89
1150	-25.18	-46.53	19.79	48.34	-23.70	-70.41	-22.01	113.79	1.10	0.64	31.02	15.61	2.88
1200	-25.14	-52.60	19.68	42.98	-23.68	-73.47	-21.78	109.06	1.10	0.63	30.83	15.77	2.84
1250	-25.08	-57.86	19.58	37.66	-23.63	-76.60	-21.48	104.61	1.10	0.63	31.21	15.57	2.88
1300	-24.98	-63.09	19.47	32.32	-23.61	-79.71	-21.23	99.93	1.11	0.62	30.98	15.89	2.95
1350	-24.85	-67.72	19.36	27.05	-23.57	-82.95	-20.84	96.40	1.11	0.62	30.82	15.81	2.90
1400	-24.86	-72.50	19.25	21.77	-23.51	-86.09	-20.54	91.83	1.11	0.61	30.62	15.72	2.89
1450	-24.79	-77.21	19.14	16.51	-23.47	-89.20	-20.16	87.86	1.12	0.61	30.77	15.67	2.84
1500	-25.01	-80.43	19.04	11.29	-23.44	-92.44	-19.74	83.68	1.12	0.60	30.98	15.80	2.83
1550	-24.78	-85.24	18.91	6.10	-23.42	-95.43	-19.66	78.65	1.13	0.59	31.15	15.69	2.87
1600	-24.97	-93.79	18.80	0.92	-23.36	-98.62	-19.43	74.51	1.13	0.59	31.20	15.72	2.82
1650	-24.99	-99.35	18.70	-4.24	-23.32	-101.67	-19.29	70.52	1.13	0.59	31.27	15.63	2.83
1700	-25.03	-105.41	18.58	-9.37	-23.28	-105.01	-19.12	66.44	1.13	0.58	31.67	15.86	2.99
1750	-25.00	-112.41	18.48	-14.45	-23.21	-108.19	-18.96	62.41	1.14	0.58	31.33	15.69	2.86
1800	-25.09	-117.47	18.36	-19.60	-23.17	-111.35	-18.72	58.22	1.14	0.57	31.24	15.84	2.92
1850	-25.01	-123.27	18.25	-24.64	-23.14	-114.64	-18.58	54.35	1.15	0.57	30.57	15.71	2.87
1900	-24.93	-129.46	18.14	-29.66	-23.09	-117.75	-18.37	50.36	1.15	0.56	30.68	15.83	2.82
1950	-25.32	-135.46	18.04	-34.73	-23.04	-120.99	-18.15	46.36	1.15	0.56	30.68	15.65	2.80
2000	-25.06	-143.41	17.92	-39.67	-22.98	-124.00	-18.14	42.51	1.15	0.56	30.76	15.60	2.80

TYPE: MMIC Amplifier
MODEL: ERA-50SM Reference Data: RDF-1125B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 72mA, Vd = 4.68V @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	-38.04	148.15	21.79	173.48	-24.42	-3.34	-24.68	176.32	1.04	0.74	37.03	19.85	2.93
100	-38.45	134.30	21.73	167.57	-24.47	-6.06	-24.65	173.40	1.05	0.73	36.99	19.93	3.00
150	-37.76	111.25	21.70	161.76	-24.46	-9.21	-24.94	171.26	1.05	0.73	37.72	20.02	2.98
200	-35.79	96.54	21.67	155.85	-24.43	-12.17	-24.82	167.71	1.05	0.73	37.11	19.98	2.95
250	-33.97	89.36	21.63	149.93	-24.42	-14.99	-24.52	165.85	1.05	0.73	36.08	19.94	2.99
300	-33.14	85.64	21.57	143.99	-24.42	-17.91	-24.15	162.60	1.05	0.72	36.89	19.88	3.07
350	-32.12	78.29	21.51	138.10	-24.41	-21.03	-23.80	158.98	1.05	0.72	36.57	19.87	2.94
400	-31.67	70.91	21.45	132.26	-24.37	-23.86	-23.61	155.94	1.05	0.72	36.48	19.82	2.98
450	-30.50	62.21	21.38	126.45	-24.37	-26.83	-23.46	153.17	1.06	0.71	35.96	19.73	2.96
500	-29.71	54.94	21.31	120.59	-24.34	-29.90	-23.20	150.18	1.06	0.71	36.10	19.73	2.95
550	-29.09	47.46	21.23	114.87	-24.30	-32.93	-23.01	147.14	1.06	0.70	35.95	19.74	2.97
600	-28.40	41.91	21.15	109.12	-24.28	-35.86	-22.77	143.70	1.06	0.70	35.81	19.73	2.97
650	-27.78	35.03	21.06	103.38	-24.28	-39.01	-22.59	140.11	1.07	0.69	35.60	19.64	2.92
700	-27.30	30.12	20.98	97.72	-24.25	-41.98	-22.25	136.19	1.07	0.69	35.76	19.53	2.96
750	-26.92	25.21	20.88	92.08	-24.23	-45.00	-22.01	132.12	1.07	0.68	35.59	19.48	2.98
800	-26.43	19.19	20.78	86.47	-24.20	-47.93	-21.79	126.91	1.07	0.68	35.58	19.41	2.92
850	-26.28	13.99	20.69	80.88	-24.18	-51.04	-21.46	123.61	1.08	0.67	35.38	19.35	2.99
900	-25.92	8.65	20.59	75.34	-24.14	-54.03	-21.22	119.58	1.08	0.67	35.36	19.28	2.95
940	-25.76	4.64	20.50	70.90	-24.13	-56.58	-20.97	116.20	1.08	0.66	35.19	19.28	2.88
1000	-25.43	-3.19	20.38	64.31	-24.08	-60.20	-20.75	111.93	1.09	0.65	35.01	19.20	2.88
1050	-25.16	-8.58	20.27	58.83	-24.04	-63.32	-20.56	108.11	1.09	0.65	34.75	19.16	2.92
1100	-25.00	-13.97	20.16	53.44	-24.00	-66.39	-20.34	104.31	1.09	0.64	34.68	19.15	2.98
1150	-24.91	-18.94	20.05	48.01	-23.97	-69.42	-20.17	99.67	1.09	0.64	34.34	19.13	2.97
1200	-24.97	-25.07	19.94	42.65	-23.93	-72.50	-20.00	95.34	1.10	0.63	34.48	19.07	2.92
1250	-24.91	-30.70	19.83	37.32	-23.88	-75.66	-19.81	91.35	1.10	0.63	34.40	19.08	2.97
1300	-24.84	-36.55	19.71	32.00	-23.86	-78.66	-19.64	87.04	1.11	0.62	34.09	19.10	3.04
1350	-24.75	-41.91	19.60	26.77	-23.82	-81.78	-19.39	83.79	1.11	0.62	33.79	19.05	3.00
1400	-24.74	-47.09	19.49	21.48	-23.77	-85.00	-19.17	79.83	1.11	0.61	33.60	18.98	2.96
1450	-24.66	-51.86	19.38	16.25	-23.73	-88.19	-18.90	76.33	1.12	0.61	33.84	18.91	2.93
1500	-24.75	-55.15	19.28	11.04	-23.68	-91.32	-18.58	72.65	1.12	0.60	33.75	18.86	2.96
1550	-24.57	-60.98	19.14	5.86	-23.64	-94.30	-18.54	67.92	1.12	0.60	33.92	18.80	2.98
1600	-24.96	-68.54	19.03	0.71	-23.60	-97.40	-18.37	64.16	1.13	0.59	33.80	18.62	2.92
1650	-25.02	-74.09	18.92	-4.44	-23.54	-100.67	-18.28	60.39	1.13	0.59	33.83	18.61	2.94
1700	-25.14	-80.37	18.81	-9.56	-23.51	-103.70	-18.14	56.57	1.13	0.58	33.88	18.48	3.08
1750	-25.29	-87.27	18.70	-14.61	-23.43	-106.86	-18.05	52.77	1.14	0.58	33.36	18.47	2.94
1800	-25.41	-92.43	18.58	-19.75	-23.40	-110.14	-17.87	48.92	1.14	0.57	33.21	18.19	3.04
1850	-25.39	-98.67	18.46	-24.79	-23.35	-113.20	-17.76	45.11	1.14	0.57	32.43	18.31	2.94
1900	-25.36	-105.04	18.35	-29.76	-23.31	-116.55	-17.59	41.60	1.15	0.56	32.84	18.08	2.93
1950	-25.84	-109.87	18.25	-34.82	-23.24	-119.71	-17.44	38.04	1.15	0.56	32.29	17.81	2.91
2000	-25.77	-119.23	18.13	-39.74	-23.16	-122.66	-17.45	34.14	1.15	0.56	32.72	17.85	2.93

TYPE: MMIC Amplifier
MODEL: ERA-50SM Reference Data: RDF-1125B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 60mA, Vd = 4.23V @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	-42.82	78.78	21.48	173.43	-24.22	-4.14	-27.97	175.93	1.05	0.73	33.23	18.22	3.67
100	-40.57	92.07	21.41	167.50	-24.24	-6.09	-27.07	173.91	1.05	0.72	33.20	18.23	3.74
150	-38.88	88.20	21.37	161.73	-24.23	-8.64	-26.66	172.21	1.05	0.72	33.84	18.34	3.75
200	-36.51	86.09	21.33	155.84	-24.23	-11.71	-26.31	169.40	1.05	0.72	33.41	18.34	3.74
250	-34.96	76.52	21.28	149.98	-24.23	-14.60	-26.10	169.87	1.06	0.71	32.39	18.26	3.79
300	-34.29	69.08	21.23	144.08	-24.18	-17.43	-25.86	168.91	1.06	0.71	33.23	18.17	3.83
350	-33.09	56.10	21.16	138.25	-24.23	-20.19	-25.73	167.12	1.06	0.70	32.88	18.17	3.78
400	-32.57	47.46	21.09	132.47	-24.17	-23.05	-25.52	165.75	1.06	0.70	32.80	18.14	3.81
450	-31.07	41.24	21.02	126.70	-24.16	-25.98	-25.29	163.77	1.06	0.70	32.21	18.02	3.79
500	-30.33	35.37	20.94	120.92	-24.16	-28.82	-24.95	161.29	1.07	0.69	32.45	18.05	3.78
550	-29.73	29.33	20.86	115.22	-24.15	-31.78	-24.56	157.76	1.07	0.69	32.25	18.07	3.83
600	-29.21	24.31	20.77	109.54	-24.14	-34.71	-24.29	154.75	1.07	0.68	32.18	18.06	3.82
650	-28.62	18.42	20.68	103.87	-24.12	-37.45	-23.98	151.14	1.08	0.67	31.94	17.94	3.78
700	-28.14	12.92	20.59	98.27	-24.08	-40.47	-23.57	147.61	1.08	0.67	32.11	17.83	3.84
750	-27.77	7.81	20.49	92.69	-24.04	-43.49	-23.26	144.02	1.08	0.66	31.97	17.84	3.84
800	-27.24	0.45	20.38	87.16	-24.03	-46.22	-23.07	140.03	1.08	0.66	32.00	17.72	3.79
850	-26.87	-5.56	20.29	81.62	-24.01	-49.18	-22.73	136.80	1.09	0.65	31.86	17.63	3.83
900	-26.48	-11.93	20.18	76.16	-24.00	-52.06	-22.53	133.29	1.09	0.64	31.77	17.59	3.84
940	-26.31	-16.28	20.09	71.78	-23.97	-54.35	-22.27	129.82	1.10	0.64	31.72	17.62	3.77
1000	-25.94	-23.97	19.96	65.26	-23.93	-57.90	-22.00	125.21	1.10	0.63	31.45	17.50	3.80
1050	-25.70	-29.84	19.85	59.87	-23.92	-60.82	-21.73	121.33	1.10	0.63	31.39	17.44	3.79
1100	-25.54	-34.93	19.74	54.53	-23.88	-63.80	-21.37	117.28	1.11	0.62	31.16	17.46	3.87
1150	-25.33	-40.70	19.62	49.17	-23.84	-66.70	-21.18	113.35	1.11	0.62	30.93	17.43	3.88
1200	-25.19	-46.76	19.50	43.88	-23.81	-69.63	-20.94	109.48	1.12	0.61	30.91	17.33	3.79
1250	-24.99	-52.39	19.39	38.63	-23.76	-72.57	-20.68	106.06	1.12	0.60	30.94	17.33	3.84
1300	-24.82	-58.52	19.27	33.40	-23.73	-75.54	-20.48	102.09	1.12	0.60	30.65	17.39	3.95
1350	-24.73	-64.13	19.15	28.23	-23.68	-78.58	-20.19	98.61	1.13	0.59	30.33	17.32	3.87
1400	-24.76	-70.52	19.03	23.02	-23.65	-81.56	-20.03	94.60	1.13	0.59	30.09	17.21	3.85
1450	-24.75	-76.63	18.92	17.85	-23.62	-84.61	-19.76	90.49	1.14	0.58	30.25	17.14	3.80
1500	-24.92	-81.69	18.81	12.67	-23.58	-87.64	-19.45	86.28	1.14	0.58	30.21	17.10	3.87
1550	-24.59	-88.10	18.67	7.61	-23.53	-90.49	-19.45	81.91	1.15	0.57	30.42	16.98	3.89
1600	-24.55	-96.47	18.56	2.53	-23.51	-93.40	-19.26	78.30	1.15	0.56	30.39	16.76	3.89
1650	-24.43	-101.88	18.43	-2.53	-23.46	-96.40	-19.07	74.49	1.16	0.56	30.40	16.74	3.81
1700	-24.41	-107.46	18.32	-7.56	-23.42	-99.67	-18.87	70.91	1.16	0.55	30.47	16.65	3.99
1750	-24.36	-113.73	18.20	-12.55	-23.36	-102.53	-18.73	67.11	1.16	0.55	29.94	16.56	3.88
1800	-24.43	-119.58	18.08	-17.60	-23.33	-105.48	-18.54	63.20	1.17	0.54	29.86	16.31	3.95
1850	-24.35	-126.32	17.96	-22.53	-23.28	-108.43	-18.42	59.29	1.17	0.54	29.06	16.40	3.86
1900	-24.37	-132.59	17.85	-27.43	-23.22	-111.51	-18.22	55.38	1.18	0.54	29.26	16.22	3.87
1950	-24.76	-138.96	17.73	-32.48	-23.17	-114.73	-18.03	51.03	1.18	0.53	28.89	15.86	3.82
2000	-24.33	-147.23	17.61	-37.27	-23.09	-117.64	-18.00	47.46	1.18	0.53	29.16	15.88	3.85

TYPE: MMIC Amplifier
MODEL: ERA-50SM Reference Data: RDF-1125B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 48mA, Vd = 4.18V @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	-31.72	9.58	21.21	173.45	-24.01	-4.61	-37.18	-174.79	1.05	0.72	30.19	16.61	3.65
100	-32.46	9.77	21.15	167.59	-23.97	-6.18	-34.84	-178.69	1.05	0.72	30.15	16.32	3.69
150	-32.78	10.38	21.12	161.83	-24.00	-8.85	-33.63	-176.36	1.05	0.72	30.68	16.62	3.69
200	-32.43	13.38	21.08	155.98	-24.01	-11.75	-32.72	-175.91	1.06	0.71	30.39	16.57	3.69
250	-32.03	13.32	21.03	150.14	-23.98	-14.76	-31.63	-172.45	1.06	0.71	29.47	16.44	3.73
300	-31.47	8.76	20.97	144.28	-23.97	-17.60	-30.95	-171.66	1.06	0.71	30.35	16.38	3.78
350	-30.46	5.60	20.91	138.46	-23.94	-20.49	-30.38	-170.88	1.06	0.71	29.98	16.41	3.74
400	-29.92	2.44	20.84	132.69	-23.94	-23.41	-29.51	-172.25	1.06	0.70	30.01	16.47	3.73
450	-29.05	0.22	20.77	126.98	-23.95	-26.29	-28.94	-173.75	1.07	0.69	29.38	16.15	3.73
500	-28.67	-2.03	20.70	121.18	-23.91	-29.12	-28.17	-176.94	1.07	0.69	29.78	16.24	3.75
550	-28.25	-5.88	20.62	115.52	-23.89	-32.16	-27.58	179.73	1.07	0.69	29.55	16.30	3.77
600	-27.92	-8.65	20.54	109.84	-23.87	-35.02	-26.98	175.43	1.07	0.68	29.59	16.34	3.78
650	-27.46	-12.78	20.45	104.19	-23.88	-37.96	-26.39	170.63	1.08	0.67	29.40	16.18	3.74
700	-27.06	-17.14	20.36	98.61	-23.85	-40.91	-25.81	166.82	1.08	0.67	29.60	15.94	3.77
750	-26.83	-20.71	20.27	93.04	-23.84	-43.84	-25.32	162.22	1.08	0.66	29.55	16.22	3.78
800	-26.37	-25.42	20.17	87.51	-23.81	-46.75	-24.98	157.26	1.09	0.66	29.62	15.85	3.76
850	-26.00	-30.61	20.07	81.98	-23.78	-49.66	-24.46	153.45	1.09	0.65	29.60	15.80	3.79
900	-25.62	-35.68	19.97	76.52	-23.78	-52.66	-24.14	149.67	1.09	0.64	29.51	15.77	3.76
940	-25.54	-38.75	19.89	72.16	-23.75	-55.04	-23.79	145.35	1.09	0.64	29.65	15.79	3.70
1000	-25.14	-45.66	19.75	65.65	-23.73	-58.60	-23.37	140.14	1.10	0.63	29.34	15.69	3.71
1050	-24.94	-50.22	19.65	60.24	-23.68	-61.49	-22.98	135.40	1.10	0.63	29.59	15.53	3.76
1100	-24.77	-55.00	19.54	54.91	-23.66	-64.53	-22.54	130.84	1.11	0.62	29.19	15.88	3.80
1150	-24.60	-59.90	19.43	49.55	-23.65	-67.49	-22.30	126.60	1.11	0.61	29.23	15.60	3.81
1200	-24.44	-65.22	19.31	44.27	-23.61	-70.39	-21.95	121.97	1.12	0.61	29.08	15.67	3.73
1250	-24.23	-70.75	19.20	39.01	-23.57	-73.36	-21.62	118.14	1.12	0.60	29.30	15.50	3.80
1300	-24.11	-75.58	19.09	33.77	-23.54	-76.40	-21.37	113.68	1.12	0.60	29.06	15.80	3.87
1350	-23.97	-81.03	18.97	28.59	-23.50	-79.27	-21.00	109.92	1.13	0.59	28.83	15.70	3.84
1400	-23.99	-86.93	18.86	23.37	-23.47	-82.31	-20.80	105.29	1.13	0.59	28.58	15.58	3.80
1450	-23.92	-92.73	18.74	18.21	-23.43	-85.43	-20.47	100.67	1.14	0.58	28.72	15.52	3.75
1500	-24.06	-98.21	18.64	13.02	-23.40	-88.55	-20.13	96.12	1.14	0.58	28.81	15.62	3.82
1550	-23.71	-103.77	18.50	7.96	-23.37	-91.18	-20.11	91.66	1.15	0.57	29.04	15.47	3.85
1600	-23.61	-111.19	18.39	2.86	-23.30	-94.50	-19.83	87.34	1.15	0.57	29.06	15.40	3.80
1650	-23.50	-116.09	18.28	-2.23	-23.28	-97.39	-19.63	83.29	1.15	0.56	29.11	15.32	3.75
1700	-23.44	-121.71	18.15	-7.25	-23.26	-100.31	-19.36	79.38	1.16	0.55	29.32	15.45	3.91
1750	-23.34	-127.55	18.04	-12.25	-23.18	-103.54	-19.20	75.46	1.16	0.55	28.91	15.23	3.86
1800	-23.42	-133.09	17.92	-17.31	-23.15	-106.50	-19.00	71.25	1.17	0.54	28.82	15.21	3.91
1850	-23.35	-138.91	17.81	-22.28	-23.08	-109.59	-18.85	67.12	1.17	0.54	28.09	15.20	3.84
1900	-23.27	-145.57	17.70	-27.18	-23.06	-112.54	-18.63	62.77	1.18	0.54	28.19	15.18	3.76
1950	-23.53	-151.88	17.58	-32.23	-23.01	-115.78	-18.39	58.17	1.18	0.53	28.00	14.84	3.73
2000	-23.12	-158.79	17.46	-37.03	-22.93	-118.63	-18.38	54.49	1.18	0.53	28.16	14.84	3.81

TYPE: MMIC Amplifier
MODEL: ERA-50SM Reference Data: RDF-1125B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 72mA, Vd = 4.27V @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	-35.65	147.15	21.64	173.41	-24.36	-3.96	-24.62	175.37	1.05	0.73	35.70	19.30	3.78
100	-34.22	140.36	21.57	167.45	-24.41	-6.04	-24.13	171.90	1.05	0.72	35.75	19.46	3.82
150	-33.03	131.87	21.53	161.65	-24.45	-8.27	-23.90	169.08	1.05	0.72	36.52	19.46	3.82
200	-32.09	121.13	21.49	155.76	-24.34	-11.98	-23.72	166.36	1.05	0.72	35.81	19.47	3.80
250	-31.51	109.93	21.44	149.89	-24.36	-14.61	-23.54	165.14	1.05	0.72	34.69	19.44	3.84
300	-31.38	101.87	21.38	143.99	-24.35	-17.18	-23.52	163.24	1.06	0.71	35.38	19.30	3.90
350	-31.10	88.49	21.32	138.13	-24.36	-19.87	-23.47	160.82	1.06	0.71	35.07	19.27	3.84
400	-30.79	78.87	21.24	132.33	-24.36	-22.87	-23.35	158.44	1.06	0.70	34.84	19.17	3.85
450	-29.88	68.26	21.17	126.59	-24.33	-25.62	-23.25	155.90	1.06	0.70	34.28	19.17	3.86
500	-29.32	60.64	21.09	120.78	-24.32	-28.37	-23.03	152.99	1.07	0.69	34.28	19.09	3.84
550	-28.90	53.31	21.01	115.08	-24.29	-31.52	-22.85	149.78	1.07	0.69	34.10	19.15	3.86
600	-28.44	46.47	20.92	109.37	-24.28	-34.44	-22.60	146.52	1.07	0.68	33.89	19.10	3.90
650	-27.96	39.15	20.82	103.71	-24.25	-37.19	-22.41	142.97	1.07	0.68	33.62	18.99	3.84
700	-27.59	32.44	20.73	98.10	-24.24	-40.14	-22.13	139.67	1.08	0.67	33.68	18.93	3.87
750	-27.29	26.19	20.63	92.53	-24.20	-43.09	-21.93	136.13	1.08	0.66	33.46	18.74	3.88
800	-26.88	18.06	20.52	86.98	-24.17	-45.82	-21.79	132.00	1.08	0.66	33.41	18.79	3.84
850	-26.61	11.23	20.42	81.46	-24.15	-48.69	-21.57	129.12	1.09	0.65	33.14	18.59	3.91
900	-26.30	4.06	20.31	75.98	-24.14	-51.75	-21.43	125.60	1.09	0.64	33.06	18.56	3.89
940	-26.14	-0.76	20.22	71.60	-24.11	-53.95	-21.21	122.30	1.10	0.64	32.84	18.57	3.84
1000	-25.88	-9.15	20.09	65.07	-24.07	-57.45	-21.02	117.76	1.10	0.63	32.58	18.41	3.85
1050	-25.66	-15.34	19.98	59.68	-24.04	-60.40	-20.80	114.11	1.10	0.63	32.31	18.40	3.84
1100	-25.49	-20.99	19.86	54.34	-24.01	-63.36	-20.54	110.49	1.11	0.62	32.18	18.23	3.96
1150	-25.33	-27.19	19.74	48.99	-23.97	-66.29	-20.38	106.60	1.11	0.62	31.78	18.32	3.91
1200	-25.24	-33.59	19.62	43.72	-23.93	-69.22	-20.18	102.83	1.12	0.61	31.84	18.07	3.85
1250	-25.09	-39.95	19.51	38.47	-23.90	-72.19	-19.99	99.55	1.12	0.60	31.74	18.15	3.90
1300	-24.96	-45.90	19.38	33.24	-23.87	-75.01	-19.83	95.84	1.12	0.60	31.42	18.10	4.00
1350	-24.90	-51.87	19.27	28.07	-23.81	-77.93	-19.61	92.70	1.13	0.59	31.10	18.00	3.96
1400	-24.98	-58.48	19.15	22.88	-23.77	-80.99	-19.46	88.62	1.13	0.59	30.88	17.89	3.89
1450	-24.99	-64.61	19.03	17.72	-23.74	-84.02	-19.24	84.79	1.14	0.58	31.06	17.78	3.87
1500	-25.19	-69.63	18.92	12.55	-23.71	-87.09	-18.96	80.85	1.14	0.58	30.97	17.68	3.94
1550	-24.89	-76.78	18.78	7.48	-23.66	-89.85	-18.98	76.67	1.15	0.57	31.14	17.59	3.97
1600	-24.99	-85.56	18.66	2.41	-23.60	-92.96	-18.80	72.98	1.15	0.57	31.06	17.33	3.93
1650	-24.87	-90.76	18.54	-2.67	-23.56	-95.92	-18.66	69.37	1.16	0.56	31.03	17.34	3.90
1700	-24.86	-96.75	18.42	-7.67	-23.52	-98.86	-18.48	66.13	1.16	0.55	31.00	17.17	4.05
1750	-24.86	-103.32	18.30	-12.66	-23.45	-101.95	-18.36	62.48	1.16	0.55	30.46	17.17	3.92
1800	-24.97	-109.37	18.18	-17.69	-23.42	-104.83	-18.20	58.64	1.17	0.55	30.39	16.82	4.04
1850	-24.93	-115.74	18.06	-22.63	-23.36	-107.89	-18.11	55.06	1.17	0.54	29.61	16.98	3.94
1900	-24.98	-122.62	17.95	-27.50	-23.32	-111.04	-17.94	51.14	1.18	0.54	29.83	16.71	3.96
1950	-25.41	-128.77	17.84	-32.55	-23.25	-114.32	-17.73	46.91	1.18	0.53	29.41	16.42	3.85
2000	-25.09	-137.72	17.71	-37.35	-23.20	-116.82	-17.72	43.35	1.18	0.53	29.73	16.47	3.95