ERA-3SM Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

TYPE: MMIC Amplifier
MODEL: ERA-3SM Reference Data: RDF-1128B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 35mA, Vd = 3.25V @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	-37.00	62.73	22.97	173.33	-25.25	-3.07	-23.90	167.07	1.03	0.77	26.87	12.72	2.51
100	-37.58	64.98	22.93	167.18	-25.66	-6.33	-23.73	158.17	1.05	0.73	27.44	12.72	2.58
150	-34.27	60.88	22.88	161.26	-25.57	-8.96	-23.66	148.26	1.04	0.73	27.40	12.80	2.59
200	-31.98	63.67	22.82	155.29	-25.63	-11.53	-23.12	139.46	1.05	0.72	27.34	12.79	2.53
250	-30.21	59.95	22.73	149.29	-25.61	-13.88	-22.90	130.65	1.05	0.72	26.64	12.80	2.57
300	-29.01	52.61	22.68	143.31	-25.49	-17.18	-22.51	122.46	1.05	0.72	27.54	12.75	2.60
350	-27.80	47.53	22.60	137.38	-25.48	-19.65	-22.06	114.43	1.05	0.72	27.41	12.77	2.55
400	-26.61	45.79	22.51	131.59	-25.47	-22.79	-21.82	106.06	1.05	0.71	26.97	12.71	2.58
450	-25.60	39.45	22.42	125.77	-25.41	-25.36	-21.46	98.42	1.05	0.71	26.98	12.69	2.57
500	-24.83	34.57	22.30	119.97	-25.41	-28.46	-20.92	90.43	1.05	0.69	26.91	12.74	2.59
550	-24.03	30.13	22.21	114.34	-25.38	-31.54	-20.53	83.57	1.05	0.69	27.11	12.79	2.60
600	-23.38	25.56	22.08	108.67	-25.31	-34.28	-20.12	76.43	1.05	0.68	26.94	12.84	2.64
650	-22.88	21.27	21.97	103.07	-25.25	-37.44	-19.80	69.50	1.05	0.68	27.05	12.78	2.62
700	-22.36	15.78	21.86	97.49	-25.21	-40.23	-19.42	63.19	1.06	0.67	27.21	12.78	2.59
750	-21.77	10.58	21.75	92.01	-25.17	-43.35	-19.10	57.02	1.06	0.67	27.29	12.66	2.59
800	-21.31	4.63	21.62	86.50	-25.14	-46.45	-18.76	50.42	1.06	0.66	27.42	12.64	2.59
850	-20.84	-0.06	21.50	81.09	-25.10	-49.56	-18.52	44.05	1.06	0.65	27.28	12.61	2.58
900	-20.52	-4.73	21.37	75.74	-25.02	-52.57	-18.19	38.34	1.06	0.65	27.55	12.56	2.61
940	-20.23	-8.57	21.29	71.49	-24.98	-54.88	-17.96	32.92	1.06	0.64	27.41	12.47	2.55
1000	-19.84	-15.32	21.13	65.03	-24.93	-58.81	-17.66	26.15	1.06	0.63	27.45	12.53	2.55
1100	-19.35	-25.59	20.88	54.56	-24.85	-65.00	-17.22	14.46	1.07	0.62	27.29	12.57	2.68
1200	-18.91	-35.76	20.63	44.18	-24.78	-71.42	-16.80	3.25	1.07	0.60	27.16	12.47	2.60
1300	-18.67	-47.04	20.38	33.89	-24.67	-77.86	-16.51	-7.47	1.08	0.59	27.32	12.62	2.71
1400	-18.35	-57.16	20.13	23.77	-24.58	-84.49	-16.23	-17.86	1.08	0.58	26.84	12.68	2.67
1500	-18.19	-67.40	19.89	13.67	-24.47	-91.01	-15.93	-28.11	1.09	0.57	27.10	12.58	2.70
1600	-17.93	-77.61	19.64	3.76	-24.46	-97.42	-15.76	-38.73	1.10	0.56	27.27	12.50	2.70
1700	-17.86	-88.51	19.40	-6.09	-24.37	-103.96	-15.63	-48.84	1.11	0.55	27.89	12.45	2.71
1800	-17.81	-99.55	19.16	-15.86	-24.27	-110.60	-15.52	-58.99	1.12	0.54	27.69	12.56	2.72
1900	-17.70	-109.86	18.93	-25.53	-24.20	-117.15	-15.39	-68.93	1.13	0.53	27.20	12.43	2.64
2000	-17.70	-120.72	18.70	-35.19	-24.10	-123.64	-15.32	-78.43	1.14	0.52	27.39	12.51	2.63
2100	-17.70	-131.98	18.48	-44.74	-24.05	-130.50	-15.22	-88.10	1.15	0.51	26.77	12.43	2.67
2200	-17.70	-142.72	18.25	-54.30	-24.02	-137.27	-15.16	-97.76	1.17	0.50	26.85	12.40	2.61
2300	-17.65	-154.15	18.02	-63.76	-23.96	-143.89	-15.11	-107.37	1.18	0.49	26.59	12.19	2.63
2400	-17.65	-165.44	17.79	-73.15	-23.93	-150.69	-15.08	-116.90	1.20	0.48	26.55	12.08	2.54
2500	-17.53	-176.49	17.58	-82.50	-23.87	-157.39	-15.05	-126.69	1.21	0.47	26.46	11.96	2.69
2600	-17.50	172.11	17.38	-91.66	-23.79	-163.93	-15.15	-136.69	1.23	0.47	26.02	11.61	2.58
2700	-17.54	160.84	17.18	-100.98	-23.75	-170.95	-15.20	-145.91	1.24	0.46	26.06	11.51	2.72
2800	-17.51	150.18	16.97	-110.30	-23.69	-177.55	-15.26	-155.18	1.26	0.46	25.63	11.16	2.61
2900	-17.46	139.09	16.78	-119.50	-23.64	175.67	-15.27	-164.26	1.27	0.45	25.59	11.33	2.66
3000	-17.43	127.93	16.57	-128.71	-23.58	168.75	-15.33	-173.47	1.29	0.44	25.24	10.81	2.74

TYPE: MMIC Amplifier
MODEL: ERA-3SM Reference Data: RDF-1128B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 28mA, Vd = 3.22V @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	-26.96	10.02	22.55	173.39	-25.30	-2.15	-31.67	149.11	1.05	0.73	23.91	11.03	2.48
100	-27.00	4.92	22.52	167.29	-25.25	-6.99	-32.07	139.65	1.05	0.73	24.46	10.95	2.56
150	-26.80	6.06	22.47	161.42	-25.24	-9.10	-31.99	124.40	1.05	0.73	24.35	11.16	2.53
200	-26.62	7.42	22.42	155.49	-25.18	-11.49	-29.62	119.31	1.05	0.73	24.33	11.15	2.52
250	-26.30	6.80	22.33	149.54	-25.17	-14.64	-28.96	107.89	1.05	0.72	23.71	11.04	2.55
300	-25.78	5.03	22.27	143.59	-25.15	-17.53	-28.08	99.25	1.05	0.72	24.49	10.98	2.57
350	-25.26	4.52	22.20	137.70	-25.12	-20.50	-26.89	92.13	1.05	0.71	24.43	11.01	2.54
400	-24.89	4.88	22.11	131.96	-25.05	-23.51	-26.20	84.03	1.05	0.71	24.00	10.98	2.54
450	-24.17	0.93	22.04	126.13	-25.02	-26.68	-25.31	77.80	1.05	0.71	24.03	10.83	2.56
500	-23.86	1.05	21.92	120.37	-25.03	-29.33	-24.54	68.93	1.06	0.70	23.96	11.03	2.53
550	-23.38	-1.37	21.83	114.75	-24.97	-32.18	-23.71	64.59	1.06	0.69	24.15	11.00	2.55
600	-22.89	-3.85	21.73	109.08	-24.97	-35.52	-22.94	58.68	1.06	0.68	24.04	11.14	2.61
650	-22.61	-6.80	21.61	103.53	-24.89	-38.56	-22.40	52.59	1.06	0.68	24.15	10.94	2.60
700	-22.15	-10.96	21.50	97.97	-24.91	-41.33	-21.84	47.23	1.06	0.67	24.30	11.10	2.54
750	-21.70	-14.12	21.40	92.47	-24.84	-44.51	-21.31	41.74	1.06	0.67	24.38	10.95	2.56
800	-21.31	-17.48	21.27	86.96	-24.80	-47.70	-20.91	35.15	1.06	0.66	24.56	10.95	2.57
850	-20.90	-21.16	21.18	81.56	-24.73	-50.95	-20.38	30.47	1.06	0.66	24.41	10.76	2.55
900	-20.66	-25.13	21.05	76.22	-24.76	-53.88	-19.96	25.19	1.07	0.64	24.74	10.94	2.58
940	-20.42	-27.98	20.96	71.97	-24.70	-56.35	-19.66	20.11	1.07	0.64	24.62	10.84	2.54
1000	-20.02	-33.80	20.81	65.53	-24.62	-60.35	-19.21	13.96	1.07	0.63	24.68	10.83	2.54
1100	-19.59	-42.40	20.57	55.02	-24.57	-66.69	-18.54	3.82	1.08	0.62	24.53	10.96	2.66
1200	-19.19	-51.39	20.32	44.64	-24.50	-72.95	-18.01	-7.15	1.08	0.61	24.45	10.71	2.58
1300	-18.93	-61.24	20.08	34.36	-24.42	-79.64	-17.62	-17.48	1.09	0.59	24.70	11.00	2.70
1400	-18.61	-71.17	19.84	24.19	-24.35	-86.11	-17.21	-27.00	1.10	0.58	24.40	11.02	2.67
1500	-18.45	-80.54	19.62	14.07	-24.30	-92.47	-16.85	-36.67	1.11	0.57	24.71	10.99	2.66
1600	-18.18	-89.73	19.37	4.13	-24.23	-99.24	-16.58	-47.04	1.11	0.56	24.93	10.95	2.66
1700	-18.10	-100.93	19.13	-5.76	-24.16	-105.77	-16.40	-56.94	1.13	0.55	25.52	10.87	2.67
1800	-18.00	-111.49	18.91	-15.57	-24.14	-112.38	-16.20	-66.50	1.14	0.54	25.61	10.93	2.65
1900	-17.88	-121.78	18.68	-25.27	-24.06	-118.83	-16.03	-76.15	1.15	0.53	25.16	10.86	2.59
2000	-17.85	-132.09	18.46	-34.99	-23.99	-125.77	-15.87	-85.17	1.16	0.52	25.52	10.97	2.62
2100	-17.81	-143.12	18.22	-44.59	-23.89	-132.49	-15.77	-94.94	1.17	0.51	25.05	10.93	2.63
2200	-17.79	-153.58	18.01	-54.15	-23.88	-139.19	-15.67	-104.37	1.19	0.50	25.28	10.95	2.58
2300	-17.69	-164.74	17.78	-63.67	-23.86	-145.64	-15.59	-114.09	1.20	0.49	25.19	10.88	2.60
2400	-17.65	-176.14	17.57	-73.06	-23.82	-152.53	-15.50	-123.05	1.22	0.48	25.15	10.91	2.51
2500	-17.48	173.36	17.35	-82.49	-23.78	-159.22	-15.44	-132.74	1.23	0.47	25.16	10.93	2.62
2600	-17.42	161.79	17.16	-91.70	-23.74	-165.86	-15.47	-142.52	1.25	0.47	24.74	10.66	2.51
2700	-17.40	151.05	16.95	-101.05	-23.72	-172.78	-15.52	-151.96	1.27	0.46	24.88	10.66	2.69
2800	-17.35	140.37	16.75	-110.37	-23.68	-179.59	-15.55	-160.89	1.29	0.45	24.42	10.31	2.59
2900	-17.27	129.88	16.56	-119.64	-23.61	173.62	-15.56	-170.39	1.30	0.45	24.44	10.51	2.59
3000	-17.20	118.56	16.36	-128.88	-23.58	166.69	-15.57	-179.21	1.32	0.44	24.22	10.00	2.67

TYPE: MMIC Amplifier
MODEL: ERA-3SM Reference Data: RDF-1128B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 42mA, Vd = 3.27V @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	-31.94	144.60	23.23	173.32	-25.85	-4.36	-20.35	168.40	1.04	0.74	29.25	13.70	2.56
100	-31.13	137.86	23.19	167.15	-25.81	-5.34	-20.70	160.79	1.04	0.74	29.84	13.79	2.61
150	-30.65	119.10	23.14	161.18	-25.91	-7.85	-20.63	151.95	1.05	0.73	29.83	13.80	2.60
200	-28.99	108.38	23.08	155.19	-25.84	-10.96	-20.38	144.11	1.04	0.73	29.73	13.80	2.59
250	-27.89	99.33	23.00	149.18	-25.82	-14.18	-20.30	135.94	1.05	0.72	28.93	13.89	2.62
300	-27.33	87.55	22.92	143.19	-25.83	-16.48	-19.91	128.58	1.05	0.72	29.92	13.87	2.64
350	-26.15	79.43	22.84	137.24	-25.72	-19.19	-19.78	120.64	1.05	0.72	29.73	13.74	2.57
400	-25.25	72.09	22.75	131.44	-25.73	-22.24	-19.52	112.95	1.05	0.71	29.26	13.67	2.63
450	-24.52	63.75	22.66	125.60	-25.68	-25.32	-19.32	105.52	1.05	0.70	29.19	13.82	2.63
500	-23.74	56.84	22.55	119.79	-25.64	-27.95	-18.98	97.62	1.05	0.70	29.12	13.74	2.62
550	-23.13	49.60	22.43	114.17	-25.60	-30.72	-18.67	90.74	1.05	0.69	29.28	13.87	2.64
600	-22.48	43.87	22.32	108.49	-25.57	-33.64	-18.48	83.31	1.05	0.68	29.04	13.84	2.66
650	-22.04	37.40	22.20	102.88	-25.47	-36.43	-18.17	76.79	1.05	0.68	29.12	13.90	2.67
700	-21.56	31.71	22.09	97.32	-25.47	-39.52	-17.96	70.02	1.05	0.67	29.23	13.69	2.61
750	-21.06	25.41	21.97	91.83	-25.41	-42.29	-17.72	63.55	1.05	0.66	29.29	13.68	2.63
800	-20.65	18.35	21.84	86.32	-25.34	-45.59	-17.47	57.02	1.05	0.66	29.36	13.61	2.63
850	-20.22	12.66	21.72	80.92	-25.27	-48.59	-17.30	50.61	1.05	0.65	29.19	13.65	2.64
900	-19.89	7.90	21.60	75.57	-25.22	-51.69	-17.06	44.53	1.05	0.65	29.36	13.49	2.64
940	-19.63	2.83	21.49	71.32	-25.19	-54.03	-16.87	39.43	1.05	0.64	29.17	13.38	2.61
1000	-19.27	-4.05	21.34	64.88	-25.14	-57.91	-16.68	32.09	1.06	0.63	29.17	13.50	2.61
1100	-18.83	-15.51	21.08	54.40	-25.03	-64.03	-16.34	20.39	1.06	0.62	28.91	13.42	2.72
1200	-18.46	-26.35	20.82	44.05	-24.92	-70.53	-15.98	9.04	1.06	0.61	28.80	13.40	2.63
1300	-18.26	-37.92	20.57	33.80	-24.82	-76.92	-15.79	-2.14	1.07	0.59	28.73	13.51	2.76
1400	-17.94	-48.19	20.33	23.68	-24.73	-83.07	-15.58	-12.70	1.07	0.58	28.21	13.57	2.71
1500	-17.80	-58.62	20.08	13.65	-24.65	-89.66	-15.37	-23.31	1.08	0.57	28.44	13.34	2.77
1600	-17.58	-69.69	19.82	3.73	-24.57	-95.91	-15.22	-34.02	1.09	0.56	28.53	13.33	2.72
1700	-17.52	-80.39	19.59	-6.09	-24.46	-102.67	-15.12	-44.12	1.10	0.55	29.01	13.24	2.76
1800	-17.51	-91.51	19.34	-15.81	-24.37	-109.34	-15.06	-54.47	1.11	0.54	28.57	13.39	2.76
1900	-17.42	-102.22	19.11	-25.45	-24.32	-115.96	-14.99	-64.50	1.12	0.53	28.11	13.20	2.68
2000	-17.46	-113.37	18.86	-35.11	-24.21	-122.38	-14.93	-74.11	1.13	0.52	28.11	13.29	2.71
2100	-17.50	-124.52	18.64	-44.62	-24.13	-129.41	-14.87	-83.71	1.14	0.51	27.49	13.16	2.69
2200	-17.50	-135.36	18.41	-54.12	-24.06	-135.88	-14.83	-93.45	1.15	0.50	27.49	13.05	2.65
2300	-17.49	-146.67	18.19	-63.56	-24.02	-142.52	-14.81	-103.24	1.17	0.49	27.17	12.84	2.67
2400	-17.53	-157.91	17.96	-72.92	-23.96	-149.23	-14.81	-112.83	1.18	0.49	27.04	12.61	2.57
2500	-17.45	-168.79	17.74	-82.25	-23.92	-155.95	-14.81	-122.80	1.20	0.48	26.90	12.51	2.71
2600	-17.47	179.26	17.54	-91.36	-23.85	-162.52	-14.94	-132.71	1.21	0.47	26.63	12.09	2.64
2700	-17.52	167.99	17.33	-100.66	-23.76	-169.43	-14.99	-141.90	1.23	0.47	26.65	11.99	2.77
2800	-17.53	157.29	17.13	-109.94	-23.73	-176.19	-15.07	-151.01	1.24	0.46	26.14	11.60	2.66
2900	-17.50	146.35	16.93	-119.13	-23.66	177.02	-15.12	-160.31	1.26	0.45	26.12	11.80	2.76
3000	-17.47	135.37	16.73	-128.28	-23.59	170.04	-15.20	-169.57	1.27	0.45	25.77	11.24	2.88

TYPE: MMIC Amplifier
MODEL: ERA-3SM Reference Data: RDF-1128B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 35mA, Vd = 3.42V @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	-37.23	51.10	23.08	173.34	-25.71	-3.61	-23.12	164.42	1.04	0.74	27.58	13.34	2.16
100	-37.81	41.36	23.05	167.15	-25.72	-6.75	-24.02	156.61	1.04	0.73	28.14	13.31	2.16
150	-33.36	42.06	23.02	161.12	-25.63	-8.60	-24.38	147.10	1.04	0.74	28.04	13.42	2.16
200	-30.59	48.27	22.95	155.08	-25.65	-11.71	-23.93	139.71	1.04	0.73	28.01	13.36	2.16
250	-29.05	52.03	22.88	149.00	-25.65	-14.38	-23.43	131.26	1.05	0.73	27.37	13.40	2.18
300	-27.89	49.77	22.81	142.96	-25.62	-17.58	-22.68	124.81	1.05	0.72	28.24	13.35	2.25
350	-26.86	50.90	22.74	136.93	-25.58	-20.52	-22.21	116.96	1.05	0.72	28.19	13.34	2.12
400	-25.94	47.94	22.65	131.06	-25.54	-23.33	-21.72	108.95	1.05	0.71	27.78	13.28	2.15
450	-25.20	41.87	22.57	125.17	-25.50	-26.82	-21.33	100.99	1.05	0.71	27.83	13.24	2.14
500	-24.51	39.04	22.47	119.25	-25.42	-29.63	-20.72	92.49	1.05	0.71	27.80	13.31	2.12
550	-23.97	33.11	22.36	113.54	-25.41	-32.54	-20.30	85.37	1.05	0.70	27.99	13.30	2.17
600	-23.51	28.48	22.26	107.76	-25.35	-35.84	-19.88	77.07	1.05	0.70	27.83	13.39	2.22
650	-23.19	21.65	22.14	102.07	-25.32	-39.01	-19.46	70.16	1.05	0.69	27.96	13.30	2.18
700	-22.63	15.25	22.03	96.39	-25.28	-42.05	-19.20	62.82	1.05	0.68	28.11	13.35	2.12
750	-21.97	9.51	21.93	90.81	-25.19	-45.35	-18.89	56.24	1.05	0.68	28.20	13.23	2.14
800	-21.39	3.69	21.81	85.20	-25.16	-48.77	-18.56	49.67	1.05	0.67	28.37	13.25	2.12
850	-20.91	-1.24	21.69	79.70	-25.09	-51.66	-18.31	43.44	1.05	0.67	28.19	13.13	2.15
900	-20.54	-5.05	21.57	74.21	-25.08	-54.89	-17.93	37.81	1.05	0.66	28.53	13.16	2.13
940	-20.32	-9.68	21.47	69.91	-25.04	-57.63	-17.67	32.78	1.05	0.65	28.36	13.12	2.08
1000	-19.93	-16.46	21.33	63.35	-24.97	-61.35	-17.38	25.62	1.05	0.64	28.44	13.12	2.12
1100	-19.30	-27.20	21.07	52.64	-24.88	-67.91	-16.96	14.09	1.06	0.63	28.29	13.18	2.20
1200	-18.79	-37.03	20.84	42.05	-24.80	-74.51	-16.56	3.50	1.06	0.62	28.21	13.08	2.13
1300	-18.54	-47.38	20.60	31.58	-24.69	-81.41	-16.30	-7.62	1.07	0.61	28.40	13.27	2.22
1400	-18.27	-57.87	20.36	21.21	-24.60	-87.99	-15.96	-18.08	1.07	0.59	28.02	13.31	2.20
1500	-18.09	-67.58	20.12	10.92	-24.53	-94.69	-15.64	-28.38	1.08	0.58	28.36	13.27	2.23
1600	-17.87	-78.21	19.88	0.78	-24.41	-101.63	-15.48	-38.60	1.08	0.57	28.53	13.25	2.23
1700	-17.72	-89.79	19.65	-9.31	-24.35	-108.32	-15.39	-48.99	1.09	0.56	29.18	13.20	2.24
1800	-17.52	-100.71	19.41	-19.27	-24.29	-115.06	-15.37	-59.87	1.10	0.55	29.04	13.28	2.22
1900	-17.37	-110.27	19.19	-29.18	-24.18	-121.79	-15.27	-69.43	1.11	0.54	28.58	13.22	2.17
2000	-17.58	-120.35	18.97	-39.05	-24.10	-128.97	-15.19	-78.52	1.12	0.53	28.80	13.29	2.17
2100	-17.79	-132.15	18.74	-48.86	-24.04	-135.81	-15.03	-87.92	1.13	0.53	28.16	13.21	2.15
2200	-17.74	-144.28	18.53	-58.65	-24.00	-142.92	-14.98	-98.48	1.14	0.52	28.45	13.19	2.11
2300	-17.51	-156.76	18.32	-68.40	-23.91	-149.97	-14.99	-109.20	1.15	0.51	28.13	13.08	2.10
2400	-17.31	-167.30	18.09	-78.03	-23.86	-156.77	-15.00	-119.80	1.17	0.50	28.14	13.07	2.05
2500	-17.28	-177.95	17.88	-87.59	-23.80	-163.77	-14.97	-129.78	1.18	0.49	28.06	12.99	2.16
2600	-17.37	169.94	17.68	-96.96	-23.74	-170.80	-14.96	-139.82	1.19	0.49	27.67	12.68	2.11
2700	-17.52	158.50	17.47	-106.58	-23.68	-177.96	-14.96	-148.98	1.21	0.48	27.86	12.62	2.19
2800	-17.42	146.96	17.28	-116.07	-23.63	175.05	-15.04	-158.53	1.22	0.47	27.20	12.28	2.10
2900	-17.32	136.29	17.09	-125.54	-23.56	167.93	-15.01	-168.25	1.23	0.47	27.32	12.44	2.14
3000	-17.26	124.46	16.90	-134.92	-23.53	160.99	-15.07	-177.86	1.25	0.46	26.93	11.98	2.22

TYPE: MMIC Amplifier
MODEL: ERA-3SM Reference Data: RDF-1128B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 28mA, Vd = 3.39V @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	-28.13	10.69	22.74	173.31	-25.58	-3.11	-28.75	157.28	1.05	0.72	24.34	11.73	2.07
100	-27.60	0.74	22.70	167.21	-25.38	-6.63	-31.21	144.90	1.05	0.73	24.88	11.45	2.11
150	-26.33	3.12	22.65	161.28	-25.37	-9.15	-31.44	125.73	1.05	0.73	24.72	11.67	2.13
200	-26.06	9.25	22.61	155.25	-25.33	-11.88	-29.75	121.31	1.05	0.73	24.70	11.63	2.13
250	-25.95	11.16	22.53	149.23	-25.14	-15.51	-29.06	111.75	1.04	0.74	24.18	11.59	2.15
300	-25.75	12.75	22.48	143.22	-25.27	-18.50	-27.53	108.19	1.05	0.72	24.91	11.49	2.18
350	-25.52	13.15	22.39	137.22	-25.25	-21.36	-26.62	100.10	1.05	0.72	24.92	11.52	2.07
400	-25.15	12.79	22.33	131.35	-25.16	-24.23	-25.54	93.49	1.05	0.72	24.53	11.54	2.10
450	-24.62	10.54	22.25	125.46	-25.14	-27.26	-24.72	85.96	1.05	0.71	24.61	11.38	2.12
500	-24.25	8.89	22.14	119.60	-25.14	-30.48	-23.85	77.14	1.05	0.70	24.58	11.51	2.10
550	-23.93	5.43	22.05	113.88	-25.10	-33.56	-23.01	71.43	1.05	0.70	24.78	11.43	2.12
600	-23.51	1.07	21.94	108.13	-25.07	-36.88	-22.34	62.97	1.05	0.69	24.67	11.58	2.18
650	-23.19	-3.54	21.84	102.43	-24.99	-39.95	-21.64	57.40	1.05	0.69	24.79	11.38	2.13
700	-22.67	-7.65	21.73	96.78	-24.99	-43.04	-21.18	50.11	1.06	0.68	24.96	11.58	2.06
750	-22.09	-11.64	21.62	91.17	-24.92	-46.26	-20.74	44.24	1.06	0.68	25.03	11.38	2.12
800	-21.56	-16.60	21.50	85.60	-24.90	-49.53	-20.33	37.50	1.06	0.67	25.23	11.43	2.10
850	-21.14	-19.73	21.40	80.07	-24.85	-52.76	-19.88	32.57	1.06	0.66	25.07	11.17	2.10
900	-20.89	-23.48	21.28	74.63	-24.83	-55.97	-19.42	27.03	1.06	0.66	25.41	11.36	2.09
940	-20.65	-26.16	21.19	70.28	-24.77	-58.44	-19.05	22.60	1.06	0.65	25.29	11.30	2.06
1000	-20.25	-32.14	21.05	63.74	-24.72	-62.48	-18.70	15.84	1.06	0.64	25.37	11.30	2.09
1100	-19.63	-41.22	20.81	53.00	-24.63	-69.15	-18.10	5.28	1.07	0.63	25.24	11.38	2.16
1200	-19.13	-49.56	20.59	42.41	-24.58	-75.92	-17.62	-4.87	1.07	0.62	25.17	11.22	2.10
1300	-18.92	-60.19	20.34	31.92	-24.46	-82.39	-17.28	-15.77	1.08	0.61	25.49	11.48	2.18
1400	-18.63	-70.05	20.11	21.53	-24.40	-89.24	-16.83	-25.70	1.08	0.60	25.22	11.48	2.18
1500	-18.48	-78.89	19.87	11.24	-24.36	-96.22	-16.45	-35.62	1.09	0.58	25.60	11.45	2.15
1600	-18.26	-89.23	19.65	1.06	-24.28	-102.82	-16.22	-45.35	1.10	0.57	25.80	11.45	2.18
1700	-18.07	-100.18	19.42	-9.07	-24.21	-109.75	-16.09	-55.67	1.11	0.56	26.41	11.40	2.18
1800	-17.82	-110.98	19.19	-19.05	-24.12	-116.54	-15.99	-66.30	1.11	0.55	26.50	11.44	2.17
1900	-17.69	-119.68	18.97	-28.99	-24.08	-123.58	-15.83	-75.45	1.12	0.54	26.14	11.41	2.13
2000	-17.91	-129.87	18.76	-38.87	-23.99	-130.52	-15.71	-84.23	1.13	0.53	26.59	11.46	2.13
2100	-18.06	-141.43	18.54	-48.76	-23.96	-137.51	-15.54	-93.61	1.15	0.52	26.18	11.44	2.10
2200	-17.96	-154.06	18.33	-58.59	-23.88	-144.50	-15.43	-103.98	1.16	0.52	26.53	11.50	2.08
2300	-17.67	-166.10	18.11	-68.36	-23.81	-151.78	-15.41	-114.87	1.17	0.51	26.43	11.46	2.05
2400	-17.48	-176.65	17.89	-78.00	-23.79	-158.52	-15.37	-125.20	1.18	0.50	26.51	11.62	2.01
2500	-17.43	173.43	17.68	-87.60	-23.74	-165.47	-15.30	-135.14	1.20	0.49	26.55	11.69	2.11
2600	-17.44	161.29	17.49	-97.03	-23.69	-172.38	-15.25	-144.83	1.21	0.48	26.18	11.55	2.05
2700	-17.56	149.84	17.28	-106.66	-23.65	-179.68	-15.24	-154.07	1.23	0.48	26.38	11.57	2.15
2800	-17.42	138.21	17.09	-116.19	-23.60	173.28	-15.28	-163.53	1.24	0.47	25.85	11.29	2.05
2900	-17.31	127.59	16.90	-125.71	-23.58	166.31	-15.24	-173.29	1.26	0.46	26.00	11.47	2.07
3000	-17.21	115.95	16.71	-135.13	-23.50	159.20	-15.28	177.14	1.27	0.46	25.66	11.08	2.15

TYPE: MMIC Amplifier
MODEL: ERA-3SM Reference Data: RDF-1128B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 42mA, Vd = 3.45V @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	Delta	(dBm)	(dBm)	(dB)
50	-33.29	141.90	23.32	173.31	-25.90	-2.60	-20.71	168.21	1.04	0.74	30.15	14.36	2.19
100	-34.25	130.90	23.28	167.08	-25.88	-6.76	-21.28	160.35	1.04	0.74	30.69	14.46	2.21
150	-33.00	101.50	23.24	161.07	-25.89	-8.06	-21.48	151.04	1.04	0.74	30.65	14.49	2.20
200	-30.02	91.44	23.18	154.99	-25.81	-11.76	-21.11	144.42	1.04	0.74	30.59	14.50	2.19
250	-28.16	84.73	23.10	148.89	-25.81	-14.87	-20.90	136.49	1.04	0.73	29.83	14.57	2.23
300	-26.84	79.10	23.03	142.86	-25.81	-17.26	-20.32	129.59	1.04	0.73	30.84	14.60	2.30
350	-25.69	75.15	22.95	136.83	-25.78	-19.91	-20.04	121.97	1.04	0.72	30.71	14.44	2.13
400	-24.87	69.20	22.87	130.92	-25.73	-23.01	-19.71	114.40	1.04	0.72	30.30	14.39	2.18
450	-24.18	62.12	22.78	125.03	-25.70	-26.19	-19.40	106.63	1.04	0.71	30.27	14.50	2.17
500	-23.47	56.51	22.68	119.10	-25.60	-28.89	-19.07	98.28	1.04	0.71	30.21	14.53	2.18
550	-23.02	50.10	22.57	113.40	-25.61	-31.94	-18.70	91.20	1.04	0.70	30.40	14.51	2.21
600	-22.61	43.59	22.46	107.63	-25.54	-35.19	-18.45	83.10	1.04	0.70	30.15	14.57	2.24
650	-22.34	36.66	22.35	101.93	-25.48	-38.26	-18.11	76.03	1.04	0.69	30.26	14.57	2.21
700	-21.90	29.66	22.23	96.26	-25.46	-41.52	-17.91	68.89	1.05	0.68	30.38	14.51	2.15
750	-21.30	22.66	22.12	90.66	-25.39	-44.44	-17.66	62.40	1.05	0.68	30.45	14.39	2.18
800	-20.82	15.58	22.00	85.05	-25.33	-47.67	-17.47	55.45	1.05	0.67	30.57	14.38	2.16
850	-20.35	10.28	21.88	79.54	-25.30	-50.80	-17.22	49.35	1.05	0.66	30.38	14.39	2.16
900	-20.00	5.22	21.76	74.08	-25.23	-53.90	-16.96	43.32	1.05	0.66	30.60	14.30	2.20
940	-19.75	0.89	21.66	69.76	-25.21	-56.64	-16.73	38.10	1.05	0.65	30.45	14.24	2.13
1000	-19.42	-6.53	21.51	63.23	-25.12	-60.56	-16.50	31.10	1.05	0.65	30.51	14.27	2.17
1100	-18.83	-18.18	21.25	52.51	-25.03	-66.94	-16.16	19.37	1.05	0.63	30.28	14.26	2.22
1200	-18.31	-28.57	21.01	41.96	-24.94	-73.58	-15.87	8.26	1.05	0.62	30.18	14.24	2.20
1300	-18.12	-39.72	20.77	31.50	-24.83	-80.30	-15.68	-2.99	1.06	0.61	30.15	14.38	2.28
1400	-17.87	-50.69	20.53	21.15	-24.71	-87.06	-15.39	-13.75	1.06	0.60	29.71	14.47	2.24
1500	-17.68	-60.56	20.28	10.89	-24.64	-93.57	-15.12	-24.15	1.07	0.58	30.02	14.30	2.26
1600	-17.50	-71.55	20.04	0.77	-24.56	-100.48	-15.01	-34.54	1.07	0.57	30.08	14.31	2.25
1700	-17.39	-83.06	19.81	-9.29	-24.45	-107.12	-14.97	-45.07	1.08	0.56	30.65	14.28	2.26
1800	-17.19	-94.22	19.57	-19.22	-24.35	-114.19	-14.98	-55.97	1.09	0.55	30.20	14.38	2.26
1900	-17.05	-103.82	19.34	-29.11	-24.28	-120.80	-14.88	-65.51	1.10	0.54	29.76	14.25	2.18
2000	-17.26	-113.92	19.12	-38.94	-24.18	-127.71	-14.83	-74.56	1.11	0.54	29.83	14.35	2.18
2100	-17.47	-125.43	18.90	-48.73	-24.12	-134.74	-14.70	-84.21	1.12	0.53	29.13	14.20	2.19
2200	-17.49	-137.91	18.68	-58.48	-24.05	-141.96	-14.68	-94.92	1.13	0.52	29.24	14.10	2.15
2300	-17.29	-150.38	18.46	-68.22	-23.97	-148.93	-14.72	-105.76	1.14	0.51	28.72	13.93	2.15
2400	-17.15	-161.18	18.23	-77.81	-23.90	-155.76	-14.76	-116.11	1.15	0.50	28.82	13.81	2.10
2500	-17.11	-171.64	18.02	-87.38	-23.84	-162.86	-14.75	-126.17	1.17	0.49	28.55	13.65	2.20
2600	-17.21	176.29	17.82	-96.71	-23.75	-169.49	-14.77	-136.19	1.18	0.49	28.30	13.25	2.17
2700	-17.38	164.98	17.62	-106.29	-23.73	-176.79	-14.78	-145.44	1.19	0.48	28.42	13.14	2.25
2800	-17.33	153.28	17.42	-115.76	-23.66	176.23	-14.88	-155.12	1.21	0.48	27.83	12.79	2.14
2900	-17.25	142.37	17.23	-125.19	-23.58	168.98	-14.90	-164.80	1.22	0.47	27.97	12.96	2.17
3000	-17.22	130.52	17.03	-134.58	-23.50	161.93	-14.95	-174.44	1.23	0.47	27.47	12.51	2.27

TYPE: MMIC Amplifier
MODEL: ERA-3SM Reference Data: RDF-1128B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 35mA, Vd = 3.12V @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	-34.44	43.27	22.78	173.37	-25.50	-2.27	-25.22	167.10	1.05	0.73	26.54	12.44	2.91
100	-35.14	51.81	22.72	167.21	-25.45	-6.38	-25.21	156.85	1.05	0.73	27.14	12.46	2.96
150	-33.56	60.94	22.68	161.32	-25.45	-7.70	-24.49	146.29	1.05	0.73	27.12	12.50	2.96
200	-32.03	62.34	22.62	155.39	-25.46	-11.66	-23.76	136.90	1.05	0.72	27.06	12.50	2.95
250	-31.24	60.95	22.53	149.46	-25.42	-13.71	-23.33	127.80	1.05	0.72	26.28	12.58	2.99
300	-30.08	46.28	22.46	143.55	-25.45	-16.80	-23.03	118.46	1.05	0.71	27.22	12.44	3.02
350	-28.58	39.90	22.38	137.64	-25.39	-19.20	-22.94	109.29	1.05	0.70	27.05	12.36	2.94
400	-27.19	35.15	22.30	131.89	-25.35	-22.07	-22.61	100.99	1.05	0.70	26.57	12.34	2.98
450	-25.87	28.11	22.19	126.12	-25.32	-24.97	-22.39	92.77	1.06	0.69	26.51	12.37	2.98
500	-24.95	24.91	22.08	120.38	-25.27	-27.72	-21.86	84.61	1.06	0.69	26.42	12.33	2.96
550	-24.09	19.84	21.98	114.78	-25.27	-30.51	-21.40	77.95	1.06	0.68	26.56	12.46	3.04
600	-23.45	16.37	21.86	109.18	-25.19	-33.49	-20.94	70.49	1.06	0.68	26.37	12.42	3.06
650	-22.92	12.22	21.75	103.64	-25.12	-36.64	-20.47	64.72	1.06	0.67	26.45	12.44	3.05
700	-22.36	7.21	21.62	98.14	-25.08	-39.41	-20.16	58.06	1.06	0.66	26.57	12.32	2.98
750	-21.71	2.49	21.50	92.68	-25.07	-42.37	-19.82	52.31	1.06	0.65	26.63	12.30	2.99
800	-21.14	-2.80	21.38	87.24	-25.00	-45.26	-19.54	45.97	1.06	0.65	26.73	12.18	3.01
850	-20.57	-7.99	21.27	81.89	-24.95	-48.37	-19.37	39.39	1.07	0.64	26.57	12.17	3.02
900	-20.15	-11.83	21.13	76.59	-24.91	-51.33	-19.07	33.85	1.07	0.64	26.79	12.12	3.02
940	-19.81	-16.12	21.04	72.38	-24.88	-53.73	-18.84	28.53	1.07	0.63	26.65	12.00	2.98
1000	-19.36	-22.13	20.88	66.03	-24.81	-57.40	-18.55	21.31	1.07	0.62	26.66	12.09	3.01
1100	-18.87	-32.01	20.63	55.64	-24.76	-63.54	-18.05	9.89	1.08	0.61	26.46	12.08	3.09
1200	-18.42	-40.75	20.37	45.39	-24.65	-69.89	-17.56	-0.22	1.08	0.60	26.32	11.95	3.03
1300	-18.10	-50.57	20.12	35.26	-24.58	-76.10	-17.33	-10.73	1.09	0.58	26.35	12.12	3.15
1400	-17.81	-59.83	19.87	25.24	-24.50	-82.24	-17.03	-20.89	1.10	0.57	25.91	12.17	3.13
1500	-17.76	-69.79	19.61	15.33	-24.42	-88.76	-16.70	-31.35	1.11	0.56	26.09	11.96	3.15
1600	-17.62	-79.51	19.36	5.50	-24.34	-94.95	-16.37	-41.20	1.12	0.55	26.24	11.88	3.15
1700	-17.64	-89.77	19.12	-4.20	-24.30	-101.49	-16.24	-50.56	1.13	0.53	26.74	11.77	3.13
1800	-17.65	-101.07	18.87	-13.85	-24.20	-107.87	-16.11	-61.08	1.14	0.53	26.40	11.94	3.17
1900	-17.60	-112.03	18.64	-23.39	-24.14	-114.35	-15.90	-71.07	1.15	0.52	25.92	11.73	3.06
2000	-17.70	-123.79	18.40	-32.92	-24.10	-120.81	-15.68	-80.40	1.17	0.51	25.91	11.84	3.12
2100	-17.76	-134.73	18.17	-42.35	-24.03	-127.33	-15.55	-89.08	1.18	0.50	25.36	11.65	3.12
2200	-17.70	-145.59	17.94	-51.76	-23.98	-133.83	-15.50	-98.73	1.20	0.49	25.35	11.59	3.04
2300	-17.58	-157.31	17.71	-61.08	-23.97	-140.48	-15.43	-108.72	1.21	0.48	25.04	11.37	3.11
2400	-17.53	-169.47	17.48	-70.34	-23.88	-146.99	-15.34	-118.45	1.23	0.47	24.94	11.19	3.01
2500	-17.32	179.80	17.24	-79.56	-23.88	-153.29	-15.26	-127.95	1.25	0.46	24.79	11.10	3.17
2600	-17.22	168.23	17.06	-88.57	-23.79	-159.80	-15.41	-137.46	1.26	0.46	24.45	10.70	3.07
2700	-17.12	157.76	16.84	-97.73	-23.75	-166.57	-15.49	-146.82	1.28	0.45	24.49	10.62	3.21
2800	-17.01	147.59	16.63	-106.90	-23.75	-173.07	-15.52	-156.06	1.30	0.44	24.02	10.18	3.11
2900	-16.92	137.30	16.43	-115.93	-23.65	-179.48	-15.53	-165.18	1.31	0.44	23.96	10.42	3.10
3000	-16.85	127.03	16.22	-125.00	-23.64	173.86	-15.61	-173.92	1.33	0.43	23.62	9.81	3.26

TYPE: MMIC Amplifier
MODEL: ERA-3SM Reference Data: RDF-1128B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 28mA, Vd = 3.09V @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	-24.66	10.67	22.34	173.38	-24.92	-3.19	-38.63	127.71	1.04	0.74	23.76	11.00	2.85
100	-25.71	5.77	22.28	167.35	-24.94	-5.33	-37.49	114.45	1.04	0.74	24.33	10.95	2.91
150	-26.13	5.84	22.23	161.53	-25.01	-9.08	-33.92	106.98	1.05	0.73	24.32	11.14	2.92
200	-26.18	5.31	22.18	155.63	-24.97	-11.29	-30.96	107.39	1.05	0.72	24.25	11.15	2.94
250	-26.20	2.62	22.10	149.72	-24.98	-13.74	-29.95	92.92	1.05	0.72	23.55	11.07	2.95
300	-25.30	-1.89	22.04	143.84	-24.98	-17.23	-28.79	87.40	1.05	0.71	24.38	10.97	2.99
350	-24.85	-3.02	21.94	138.01	-24.94	-20.26	-27.98	75.60	1.06	0.71	24.27	10.98	2.91
400	-24.02	-5.41	21.87	132.27	-24.90	-23.02	-27.01	70.40	1.06	0.70	23.80	10.95	2.97
450	-23.27	-7.34	21.78	126.53	-24.88	-25.93	-26.25	62.88	1.06	0.70	23.79	10.84	2.96
500	-23.00	-8.16	21.67	120.83	-24.88	-28.40	-25.43	55.59	1.06	0.69	23.70	10.92	2.94
550	-22.43	-10.83	21.57	115.26	-24.85	-31.62	-24.51	52.64	1.06	0.68	23.86	10.97	2.94
600	-22.18	-12.42	21.45	109.67	-24.81	-34.33	-23.77	46.16	1.06	0.68	23.73	11.08	3.01
650	-21.80	-16.59	21.35	104.13	-24.79	-37.65	-23.06	43.18	1.07	0.67	23.81	10.90	3.01
700	-21.52	-18.76	21.24	98.65	-24.69	-40.57	-22.57	37.02	1.07	0.67	23.94	10.93	2.93
750	-21.04	-21.64	21.13	93.21	-24.66	-43.46	-22.10	32.63	1.07	0.66	24.00	10.82	2.96
800	-20.56	-25.27	21.00	87.80	-24.66	-46.58	-21.67	26.84	1.07	0.65	24.16	10.77	2.94
850	-20.12	-29.12	20.90	82.42	-24.62	-49.63	-21.26	22.00	1.07	0.64	24.02	10.62	2.96
900	-19.81	-31.73	20.77	77.14	-24.57	-52.81	-20.92	16.42	1.08	0.64	24.30	10.75	2.99
940	-19.53	-35.36	20.68	72.94	-24.56	-55.23	-20.52	12.25	1.08	0.63	24.21	10.65	2.95
1000	-19.15	-39.68	20.53	66.56	-24.51	-58.93	-20.13	5.40	1.08	0.62	24.23	10.65	2.96
1100	-18.72	-48.64	20.28	56.17	-24.47	-65.11	-19.39	-3.89	1.09	0.61	24.06	10.72	3.05
1200	-18.35	-56.69	20.05	45.91	-24.39	-71.33	-18.81	-13.04	1.09	0.60	23.98	10.54	3.01
1300	-18.09	-65.17	19.79	35.78	-24.33	-77.79	-18.50	-23.23	1.10	0.58	24.18	10.79	3.10
1400	-17.85	-73.81	19.55	25.74	-24.27	-84.18	-18.11	-32.52	1.11	0.57	23.84	10.74	3.04
1500	-17.81	-82.72	19.31	15.76	-24.19	-90.61	-17.64	-42.00	1.12	0.56	24.09	10.68	3.12
1600	-17.68	-92.33	19.06	5.95	-24.14	-96.73	-17.26	-51.10	1.13	0.55	24.31	10.61	3.10
1700	-17.67	-102.48	18.83	-3.82	-24.08	-103.30	-17.03	-60.25	1.14	0.54	24.87	10.52	3.10
1800	-17.65	-113.29	18.58	-13.48	-24.04	-109.83	-16.83	-70.02	1.16	0.52	24.80	10.68	3.13
1900	-17.58	-124.08	18.37	-23.10	-23.98	-116.33	-16.52	-79.37	1.17	0.52	24.33	10.52	3.01
2000	-17.62	-135.62	18.13	-32.65	-23.91	-122.65	-16.27	-88.12	1.18	0.51	24.54	10.65	3.08
2100	-17.58	-146.70	17.91	-42.11	-23.89	-129.31	-16.11	-96.75	1.20	0.50	24.03	10.51	3.04
2200	-17.50	-157.09	17.68	-51.56	-23.88	-135.73	-16.01	-106.19	1.22	0.49	24.14	10.53	3.02
2300	-17.32	-168.40	17.46	-60.94	-23.77	-142.32	-15.91	-116.21	1.23	0.48	23.94	10.31	3.05
2400	-17.25	-179.91	17.23	-70.23	-23.76	-149.10	-15.76	-125.33	1.25	0.47	23.89	10.32	2.95
2500	-17.01	169.97	17.00	-79.48	-23.78	-155.73	-15.63	-134.69	1.27	0.46	23.76	10.28	3.05
2600	-16.86	158.53	16.81	-88.58	-23.70	-161.95	-15.73	-144.02	1.28	0.46	23.41	9.90	2.98
2700	-16.72	148.15	16.60	-97.76	-23.67	-168.28	-15.78	-153.50	1.30	0.45	23.46	9.86	3.16
2800	-16.59	138.06	16.39	-106.95	-23.67	-175.12	-15.78	-162.53	1.32	0.44	23.02	9.44	3.08
2900	-16.50	128.34	16.19	-116.03	-23.61	178.39	-15.79	-171.77	1.34	0.43	22.99	9.69	3.05
3000	-16.44	118.27	15.99	-125.13	-23.63	171.54	-15.83	179.63	1.36	0.42	22.77	9.05	3.23

TYPE: MMIC Amplifier
MODEL: ERA-3SM Reference Data: RDF-1128B
S PARAMETERS are presented in dB/deg Format
TEST CONDITIONS: INPUT POWER = -25dBm, Icc = 42mA, Vd = 3.14V @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	-33.77	134.01	23.07	173.31	-26.04	-2.81	-21.79	167.34	1.06	0.71	28.99	13.28	2.96
100	-31.50	127.81	23.01	167.15	-25.87	-5.12	-21.25	160.65	1.05	0.72	29.60	13.42	2.99
150	-29.77	120.65	22.96	161.23	-25.83	-8.61	-21.01	151.15	1.05	0.72	29.67	13.36	3.02
200	-28.56	113.55	22.89	155.27	-25.68	-10.54	-20.49	143.11	1.05	0.73	29.48	13.33	3.02
250	-28.16	103.92	22.81	149.30	-25.73	-13.76	-20.43	134.18	1.05	0.71	28.53	13.47	3.04
300	-27.99	90.50	22.73	143.38	-25.64	-15.99	-20.27	126.01	1.05	0.72	29.54	13.39	3.07
350	-27.29	77.85	22.64	137.47	-25.67	-18.42	-20.18	118.15	1.05	0.70	29.30	13.28	2.98
400	-26.20	68.48	22.56	131.70	-25.56	-21.67	-20.13	109.70	1.05	0.71	28.80	13.21	3.02
450	-25.34	56.62	22.46	125.92	-25.58	-24.40	-19.99	102.05	1.05	0.70	28.62	13.33	3.06
500	-24.34	50.08	22.34	120.16	-25.51	-27.16	-19.67	93.87	1.05	0.69	28.48	13.22	3.01
550	-23.57	43.06	22.23	114.58	-25.48	-29.79	-19.36	87.16	1.05	0.68	28.53	13.32	3.05
600	-22.94	37.27	22.12	108.94	-25.45	-32.77	-19.03	79.79	1.06	0.68	28.22	13.26	3.09
650	-22.45	31.55	22.00	103.40	-25.40	-35.47	-18.79	73.16	1.06	0.67	28.24	13.37	3.08
700	-21.93	24.95	21.87	97.90	-25.35	-38.52	-18.49	66.93	1.06	0.66	28.28	13.08	3.02
750	-21.31	18.79	21.75	92.45	-25.27	-41.34	-18.26	60.81	1.06	0.66	28.26	13.10	3.06
800	-20.77	12.54	21.62	87.00	-25.24	-44.39	-18.08	54.22	1.06	0.65	28.22	12.91	3.06
850	-20.23	6.79	21.50	81.64	-25.19	-47.20	-17.97	47.86	1.06	0.64	28.07	13.05	3.07
900	-19.80	1.41	21.37	76.35	-25.12	-50.27	-17.78	41.79	1.06	0.64	28.09	12.80	3.09
940	-19.49	-3.17	21.27	72.17	-25.11	-52.65	-17.64	36.26	1.06	0.63	27.95	12.72	2.99
1000	-19.07	-10.36	21.10	65.78	-25.03	-56.40	-17.41	29.19	1.07	0.62	27.85	12.79	3.02
1100	-18.58	-20.65	20.84	55.43	-24.94	-62.36	-17.05	17.17	1.07	0.61	27.57	12.70	3.16
1200	-18.14	-30.73	20.59	45.20	-24.83	-68.66	-16.69	6.26	1.07	0.60	27.39	12.65	3.07
1300	-17.84	-40.93	20.32	35.09	-24.74	-74.70	-16.53	-4.30	1.08	0.58	27.19	12.71	3.20
1400	-17.56	-51.04	20.07	25.07	-24.67	-81.00	-16.32	-14.81	1.09	0.57	26.73	12.86	3.16
1500	-17.52	-60.93	19.81	15.18	-24.59	-87.38	-16.01	-25.26	1.10	0.56	26.86	12.48	3.22
1600	-17.39	-70.88	19.55	5.42	-24.49	-93.77	-15.79	-35.75	1.11	0.55	26.85	12.43	3.21
1700	-17.43	-81.74	19.30	-4.28	-24.40	-100.28	-15.68	-45.44	1.12	0.54	27.12	12.35	3.17
1800	-17.48	-92.77	19.06	-13.85	-24.33	-106.36	-15.59	-55.73	1.13	0.53	26.56	12.50	3.20
1900	-17.49	-104.05	18.82	-23.41	-24.25	-112.97	-15.44	-66.02	1.14	0.52	26.17	12.26	3.13
2000	-17.62	-115.32	18.58	-32.88	-24.18	-119.49	-15.26	-75.48	1.15	0.51	26.04	12.39	3.18
2100	-17.70	-126.70	18.35	-42.28	-24.10	-126.11	-15.17	-84.60	1.17	0.50	25.47	12.20	3.16
2200	-17.68	-137.47	18.12	-51.65	-24.06	-132.43	-15.16	-94.26	1.18	0.49	25.47	12.12	3.09
2300	-17.60	-149.77	17.89	-60.96	-24.00	-139.09	-15.13	-104.33	1.20	0.48	25.09	11.78	3.14
2400	-17.63	-161.79	17.65	-70.18	-23.91	-145.22	-15.05	-113.98	1.21	0.48	24.97	11.65	3.04
2500	-17.43	-172.85	17.42	-79.37	-23.93	-151.82	-14.99	-123.56	1.23	0.46	24.80	11.54	3.24
2600	-17.37	175.77	17.23	-88.35	-23.84	-158.44	-15.16	-133.11	1.25	0.46	24.49	11.03	3.09
2700	-17.27	164.92	17.01	-97.49	-23.77	-164.98	-15.28	-142.60	1.26	0.45	24.48	10.96	3.25
2800	-17.17	154.61	16.80	-106.60	-23.76	-171.59	-15.32	-152.01	1.28	0.44	24.04	10.49	3.17
2900	-17.12	143.99	16.60	-115.62	-23.67	-178.30	-15.36	-161.06	1.29	0.44	23.98	10.83	3.19
3000	-17.08	133.66	16.39	-124.64	-23.67	175.24	-15.44	-169.80	1.32	0.43	23.69	10.18	3.33