

## ERA-2SM Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions**

TYPE: MMIC Amplifier

MODEL: ERA-2SM Reference Data:RDF-874AA

S PARAMETERS are presented in dB/deg Format

TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 40mA, Vd = 3.40V @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			
50	-33.63	5.43	16.34	174.40	-19.72	-4.15	-31.10	165.78	1.07	0.68	29.48	13.77	3.13
100	-34.04	5.97	16.33	169.36	-19.78	-7.58	-30.03	158.32	1.08	0.67	29.39	13.69	3.14
200	-33.71	7.79	16.27	159.41	-19.77	-14.08	-29.05	140.36	1.08	0.67	29.76	13.87	3.18
300	-33.24	5.99	16.22	149.35	-19.78	-20.95	-28.57	127.11	1.08	0.66	29.58	13.83	3.17
400	-32.85	3.81	16.16	139.36	-19.79	-27.79	-27.70	109.87	1.09	0.66	29.41	13.71	3.14
500	-32.38	5.65	16.09	129.38	-19.77	-34.76	-26.53	97.57	1.09	0.65	29.20	13.73	3.19
600	-31.70	5.93	16.01	119.54	-19.76	-41.77	-25.45	85.84	1.09	0.65	29.08	13.73	3.21
700	-30.87	2.27	15.94	109.69	-19.75	-48.89	-24.57	73.72	1.09	0.64	29.08	13.76	3.19
800	-30.24	-2.28	15.86	99.92	-19.76	-55.85	-23.60	61.35	1.10	0.64	29.51	13.65	3.25
900	-29.34	-5.62	15.77	90.21	-19.75	-62.86	-22.60	50.09	1.10	0.63	29.10	13.49	3.22
1000	-28.66	-11.61	15.69	80.48	-19.75	-69.93	-21.92	40.26	1.10	0.62	29.06	13.53	3.16
1100	-27.96	-17.22	15.61	70.83	-19.75	-77.00	-21.31	29.83	1.11	0.62	29.24	13.39	3.24
1200	-27.46	-24.33	15.52	61.19	-19.76	-84.04	-20.71	19.80	1.11	0.61	29.27	13.45	3.21
1300	-27.18	-31.09	15.43	51.65	-19.76	-91.09	-20.22	9.79	1.11	0.60	29.10	13.56	3.28
1400	-26.86	-38.70	15.33	42.12	-19.76	-98.20	-19.71	-0.24	1.12	0.60	29.11	13.47	3.31
1500	-26.45	-46.04	15.24	32.58	-19.77	-105.22	-19.28	-9.38	1.12	0.59	29.29	13.49	3.24
1600	-26.07	-53.98	15.14	23.10	-19.79	-112.29	-18.92	-18.92	1.13	0.58	29.53	13.43	3.27
1700	-25.96	-63.08	15.05	13.64	-19.80	-119.38	-18.62	-28.50	1.13	0.57	30.02	13.54	3.30
1800	-25.97	-71.51	14.94	4.25	-19.80	-126.42	-18.33	-38.00	1.14	0.57	29.99	13.56	3.33
2000	-25.90	-89.39	14.76	-14.52	-19.82	-140.65	-17.89	-55.54	1.15	0.55	29.70	13.60	3.34
2200	-25.75	-109.71	14.55	-33.16	-19.86	-154.77	-17.53	-74.59	1.17	0.54	29.49	13.62	3.30
2400	-25.86	-128.93	14.35	-51.71	-19.90	-169.11	-17.26	-92.38	1.18	0.52	29.22	13.40	3.21
2600	-25.78	-151.67	14.15	-70.09	-19.95	176.63	-17.16	-110.28	1.20	0.51	28.96	13.32	3.27
2800	-25.76	-172.14	13.93	-88.44	-20.00	162.51	-17.09	-127.87	1.22	0.49	29.08	13.31	3.28
3000	-25.64	166.69	13.73	-106.69	-20.05	148.26	-17.15	-145.54	1.25	0.48	28.88	13.28	3.24
3200	-25.68	145.89	13.54	-124.88	-20.10	133.95	-17.30	-162.42	1.27	0.46	28.46	13.04	3.28
3400	-25.32	125.94	13.34	-142.95	-20.18	119.71	-17.37	179.95	1.30	0.45	28.19	12.82	3.30
3600	-24.79	108.81	13.13	-160.80	-20.31	105.56	-17.41	162.38	1.33	0.43	27.31	12.50	3.37
3800	-24.82	89.43	12.96	-178.72	-20.36	91.34	-17.66	145.30	1.36	0.42	26.77	12.50	3.34
4000	-24.67	72.41	12.77	-163.44	-20.46	77.26	-17.80	128.39	1.39	0.41	26.35	12.33	3.33
4200	-25.79	56.30	12.62	-145.39	-20.48	62.79	-18.07	113.04	1.41	0.40	25.88	12.26	3.34
4400	-27.02	40.81	12.46	-127.51	-20.54	48.74	-18.48	97.82	1.44	0.39	25.71	11.91	3.31
4600	-26.97	31.72	12.23	-109.91	-20.74	34.03	-18.22	81.27	1.49	0.37	25.19	11.86	3.41
4800	-28.73	19.64	12.07	-92.31	-20.83	20.17	-18.54	65.51	1.53	0.36	24.96	11.88	3.46
5000	-31.45	17.26	11.88	-74.53	-20.89	5.51	-18.69	51.57	1.57	0.35	25.08	11.56	3.45
5200	-37.23	8.09	11.77	-56.83	-20.96	-8.08	-19.36	35.97	1.60	0.35	25.04	11.22	3.54
5400	-42.10	76.26	11.62	-39.07	-21.02	-22.06	-19.62	21.06	1.63	0.34	24.75	10.91	3.48
5600	-32.11	86.75	11.37	-21.37	-21.08	-37.32	-19.61	9.21	1.67	0.33	24.17	10.62	3.43
5800	-28.39	70.09	11.14	-4.24	-21.20	-52.46	-19.31	-4.31	1.73	0.32	23.54	10.74	3.48
6000	-28.36	69.84	11.07	-12.60	-21.49	-66.09	-19.52	-25.10	1.79	0.30	23.41	10.66	3.64

TYPE: MMIC Amplifier  
 MODEL: ERA-2SM Reference Data:RDF-874AA  
 S PARAMETERS are presented in dB/deg Format  
 TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 32mA, Vd = 3.35V @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			
50	-27.86	0.76	16.11	174.41	-19.58	-4.43	-43.29	141.40	1.08	0.67	26.04	11.86	3.11
100	-28.38	-0.78	16.08	169.39	-19.60	-7.04	-38.65	137.24	1.08	0.67	25.93	11.51	3.11
200	-28.35	-5.95	16.03	159.43	-19.60	-14.28	-35.31	116.34	1.08	0.66	26.22	11.89	3.13
300	-28.39	-11.12	15.98	149.39	-19.60	-21.11	-34.24	100.17	1.09	0.66	26.15	11.93	3.10
400	-28.28	-16.46	15.93	139.40	-19.60	-28.12	-31.85	84.41	1.09	0.65	26.00	11.58	3.11
500	-28.41	-18.98	15.86	129.44	-19.58	-35.10	-29.82	75.88	1.09	0.65	25.86	11.83	3.19
600	-28.44	-22.05	15.79	119.60	-19.58	-42.08	-28.13	68.19	1.09	0.65	25.77	11.61	3.19
700	-28.38	-25.31	15.71	109.76	-19.57	-49.17	-26.86	57.31	1.10	0.64	25.74	11.89	3.17
800	-28.17	-30.76	15.63	99.98	-19.58	-56.25	-25.51	46.36	1.10	0.63	26.12	11.75	3.18
900	-27.96	-33.41	15.56	90.27	-19.58	-63.29	-24.17	37.60	1.10	0.63	25.75	11.38	3.19
1000	-27.72	-37.87	15.47	80.54	-19.57	-70.39	-23.36	28.63	1.11	0.62	25.71	11.62	3.13
1100	-27.41	-42.13	15.39	70.89	-19.57	-77.43	-22.60	19.16	1.11	0.61	25.91	11.19	3.22
1200	-27.18	-47.79	15.30	61.25	-19.59	-84.52	-21.92	9.51	1.11	0.61	25.91	11.43	3.15
1300	-27.05	-55.34	15.22	51.68	-19.59	-91.68	-21.29	0.44	1.12	0.60	25.86	11.62	3.26
1400	-26.88	-61.86	15.14	42.15	-19.59	-98.72	-20.66	-8.70	1.12	0.59	25.92	11.48	3.24
1500	-26.64	-68.36	15.03	32.61	-19.62	-105.89	-20.16	-17.42	1.13	0.59	26.06	11.59	3.23
1600	-26.39	-75.34	14.94	23.11	-19.62	-112.89	-19.78	-26.57	1.13	0.58	26.24	11.47	3.23
1700	-26.33	-84.01	14.85	13.66	-19.63	-120.12	-19.39	-35.66	1.14	0.57	26.61	11.77	3.26
1800	-26.39	-92.71	14.76	4.25	-19.64	-127.14	-19.05	-44.71	1.14	0.56	26.72	11.78	3.30
2000	-26.45	-109.17	14.57	-14.56	-19.68	-141.50	-18.56	-61.91	1.16	0.55	26.54	11.84	3.27
2200	-26.20	-129.62	14.38	-33.23	-19.72	-155.74	-18.13	-80.56	1.17	0.54	26.50	11.88	3.22
2400	-26.31	-149.33	14.17	-51.81	-19.78	-169.99	-17.80	-97.78	1.19	0.52	26.51	11.62	3.18
2600	-26.03	-170.66	13.98	-70.26	-19.81	175.74	-17.65	-115.60	1.21	0.51	26.62	11.44	3.20
2800	-25.94	168.61	13.77	-88.64	-19.89	161.46	-17.56	-133.12	1.23	0.49	26.98	11.68	3.23
3000	-25.71	147.42	13.58	-106.89	-19.95	147.19	-17.58	-150.59	1.26	0.48	26.97	11.90	3.22
3200	-25.64	127.06	13.39	-125.16	-20.01	132.76	-17.72	-167.54	1.28	0.46	26.75	11.87	3.26
3400	-25.23	107.67	13.19	-143.27	-20.09	118.41	-17.76	175.01	1.31	0.45	26.65	11.72	3.27
3600	-24.81	92.11	12.98	-161.20	-20.22	104.33	-17.75	157.47	1.34	0.43	26.05	11.53	3.28
3800	-24.79	72.82	12.82	-179.17	-20.28	90.06	-18.00	140.24	1.37	0.42	25.62	11.55	3.30
4000	-24.70	54.76	12.64	162.97	-20.40	75.81	-18.10	123.46	1.40	0.41	25.27	11.54	3.28
4200	-25.93	36.92	12.48	144.84	-20.45	61.44	-18.37	108.13	1.43	0.40	24.85	11.43	3.27
4400	-27.26	18.29	12.32	126.88	-20.51	47.32	-18.81	92.38	1.46	0.39	24.66	11.13	3.27
4600	-27.78	7.80	12.10	109.25	-20.72	32.56	-18.50	76.23	1.51	0.37	24.23	11.01	3.40
4800	-30.03	-11.06	11.95	91.57	-20.82	18.54	-18.82	60.42	1.55	0.36	24.03	11.10	3.42
5000	-34.60	-24.59	11.75	73.70	-20.91	3.88	-18.99	46.09	1.59	0.35	24.17	10.86	3.41
5200	-39.85	-88.98	11.65	55.95	-20.99	-9.69	-19.66	30.11	1.62	0.34	24.06	10.53	3.48
5400	-36.15	180.00	11.50	38.13	-21.07	-23.79	-19.94	14.97	1.66	0.33	23.69	10.29	3.46
5600	-30.79	127.27	11.25	20.39	-21.12	-39.02	-19.95	3.47	1.70	0.32	23.20	9.97	3.38
5800	-27.93	98.14	11.01	3.11	-21.29	-54.24	-19.68	-10.09	1.77	0.31	22.71	10.05	3.42
6000	-26.80	94.26	10.94	-13.79	-21.61	-67.76	-19.83	-31.37	1.84	0.30	22.61	9.94	3.51

TYPE: MMIC Amplifier  
 MODEL: ERA-2SM Reference Data:RDF-874AA  
 S PARAMETERS are presented in dB/deg Format  
 TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 48mA, Vd = 3.45V @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	-40.53	20.85	16.49	174.41	-19.88	-3.71	-27.65	170.19	1.08	0.68	32.18	15.07	3.18
100	-40.93	28.20	16.47	169.36	-19.89	-7.07	-27.06	162.10	1.08	0.67	32.10	15.11	3.19
200	-38.62	36.42	16.41	159.41	-19.93	-13.95	-26.45	145.99	1.08	0.67	32.47	15.11	3.21
300	-36.90	36.05	16.36	149.36	-19.91	-20.94	-26.18	132.94	1.08	0.66	32.23	15.05	3.20
400	-35.59	33.89	16.30	139.38	-19.90	-27.69	-25.57	117.36	1.08	0.66	32.03	15.02	3.20
500	-33.88	34.49	16.23	129.39	-19.89	-34.70	-24.68	104.97	1.09	0.66	31.77	14.98	3.24
600	-32.43	32.94	16.15	119.54	-19.88	-41.67	-23.84	92.91	1.09	0.65	31.64	15.08	3.24
700	-31.20	26.19	16.08	109.72	-19.87	-48.72	-23.23	80.25	1.09	0.64	31.54	14.96	3.23
800	-30.31	19.55	15.99	99.95	-19.87	-55.67	-22.41	67.96	1.09	0.64	31.99	14.80	3.29
900	-29.13	13.74	15.91	90.22	-19.87	-62.60	-21.57	56.28	1.10	0.63	31.64	14.76	3.24
1000	-28.31	6.03	15.83	80.50	-19.87	-69.71	-21.04	45.82	1.10	0.63	31.51	14.75	3.18
1100	-27.53	-1.17	15.74	70.88	-19.86	-76.63	-20.51	35.22	1.10	0.62	31.62	14.63	3.28
1200	-26.97	-9.56	15.65	61.25	-19.87	-83.75	-19.99	24.82	1.11	0.61	31.61	14.62	3.23
1300	-26.61	-16.89	15.55	51.71	-19.86	-90.76	-19.54	14.81	1.11	0.60	31.33	14.70	3.33
1400	-26.24	-25.29	15.46	42.19	-19.87	-97.77	-19.08	4.49	1.11	0.60	31.38	14.74	3.36
1500	-25.82	-33.58	15.36	32.67	-19.88	-104.81	-18.71	-5.08	1.12	0.59	31.56	14.63	3.32
1600	-25.42	-42.00	15.26	23.19	-19.89	-111.83	-18.39	-14.68	1.13	0.58	31.74	14.57	3.29
1700	-25.30	-51.33	15.17	13.76	-19.90	-118.95	-18.13	-24.27	1.13	0.57	32.20	14.48	3.34
1800	-25.29	-59.77	15.06	4.39	-19.91	-125.90	-17.87	-33.98	1.14	0.57	31.92	14.57	3.36
2000	-25.20	-77.62	14.87	-14.36	-19.93	-140.22	-17.48	-51.98	1.15	0.55	31.53	14.55	3.39
2200	-25.08	-98.09	14.67	-32.97	-19.95	-154.21	-17.15	-70.97	1.16	0.54	31.18	14.49	3.33
2400	-25.20	-117.39	14.45	-51.47	-19.99	-168.51	-16.91	-88.92	1.18	0.52	30.58	14.41	3.25
2600	-25.23	-139.63	14.26	-69.82	-20.03	177.37	-16.86	-107.05	1.20	0.51	29.96	14.27	3.28
2800	-25.27	-160.01	14.03	-88.13	-20.08	163.17	-16.80	-124.63	1.22	0.49	29.80	14.15	3.31
3000	-25.26	178.89	13.83	-106.32	-20.13	148.92	-16.88	-142.28	1.24	0.48	29.52	13.90	3.28
3200	-25.33	158.66	13.64	-124.49	-20.17	134.66	-17.04	-159.18	1.26	0.46	29.16	13.60	3.36
3400	-25.05	138.26	13.43	-142.49	-20.25	120.39	-17.13	-176.81	1.29	0.45	28.68	13.38	3.35
3600	-24.48	120.49	13.22	-160.32	-20.36	106.44	-17.21	165.44	1.32	0.43	27.90	13.02	3.41
3800	-24.52	101.44	13.05	-178.19	-20.41	92.28	-17.47	148.61	1.35	0.42	27.24	12.98	3.39
4000	-24.33	84.27	12.87	164.04	-20.50	78.13	-17.63	131.61	1.38	0.41	26.84	12.81	3.38
4200	-25.27	69.83	12.70	146.03	-20.53	63.81	-17.89	116.33	1.40	0.40	26.42	12.75	3.42
4400	-26.29	56.03	12.54	128.21	-20.56	49.68	-18.31	101.13	1.43	0.39	26.20	12.41	3.41
4600	-25.90	46.03	12.31	110.65	-20.75	35.09	-18.06	84.70	1.48	0.37	25.70	12.40	3.54
4800	-27.10	35.85	12.16	93.11	-20.82	21.20	-18.39	69.09	1.51	0.36	25.43	12.39	3.55
5000	-28.56	33.34	11.96	75.39	-20.89	6.62	-18.53	55.03	1.55	0.35	25.53	12.07	3.58
5200	-31.63	28.14	11.85	57.73	-20.95	-6.98	-19.19	39.90	1.58	0.35	25.49	11.65	3.59
5400	-33.79	45.62	11.70	40.05	-20.99	-21.02	-19.45	25.25	1.61	0.34	25.25	11.37	3.55
5600	-29.98	60.57	11.45	22.40	-21.02	-36.11	-19.39	13.51	1.65	0.33	24.69	11.07	3.54
5800	-27.15	51.18	11.21	5.34	-21.14	-51.25	-19.09	-0.35	1.71	0.32	23.98	11.19	3.61
6000	-27.99	47.15	11.15	-11.45	-21.42	-64.81	-19.35	-20.78	1.76	0.31	23.79	11.10	3.70

TYPE: MMIC Amplifier  
 MODEL: ERA-2SM Reference Data:RDF-874AA  
 S PARAMETERS are presented in dB/deg Format  
 TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 40mA, Vd = 3.59V @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			
50	-31.19	-1.29	16.41	174.50	-19.69	-4.24	-32.95	172.70	1.07	0.68	30.34	13.96	2.75
100	-31.32	0.59	16.40	169.46	-19.74	-7.22	-32.12	157.78	1.07	0.68	30.26	13.94	2.70
200	-31.23	-7.38	16.36	159.40	-19.75	-14.24	-30.95	131.75	1.08	0.68	30.59	14.07	2.68
300	-31.43	-2.02	16.32	149.22	-19.72	-21.36	-29.78	121.34	1.08	0.67	30.51	14.09	2.80
400	-30.84	-4.70	16.26	139.14	-19.73	-28.40	-28.80	104.88	1.08	0.67	30.35	13.93	2.68
500	-31.09	-5.87	16.20	129.04	-19.71	-35.53	-27.30	91.00	1.08	0.67	30.21	14.02	2.73
600	-30.44	-4.66	16.13	119.06	-19.69	-42.77	-26.02	80.17	1.08	0.66	30.06	13.96	2.74
700	-29.73	-7.28	16.06	109.09	-19.69	-50.01	-25.14	67.42	1.08	0.66	30.06	14.07	2.72
800	-29.33	-9.50	15.98	99.19	-19.69	-57.20	-23.78	55.78	1.09	0.65	30.52	13.95	2.74
900	-28.92	-9.55	15.91	89.35	-19.69	-64.29	-22.50	45.89	1.09	0.64	30.15	13.71	2.74
1000	-28.77	-11.78	15.83	79.51	-19.67	-71.56	-21.62	37.51	1.09	0.64	30.09	13.78	2.67
1100	-27.99	-13.96	15.74	69.74	-19.68	-78.73	-20.93	28.55	1.09	0.63	30.33	13.62	2.72
1200	-27.48	-23.76	15.66	59.96	-19.68	-85.97	-20.54	17.59	1.10	0.63	30.37	13.82	2.70
1300	-27.20	-33.86	15.57	50.29	-19.68	-93.27	-20.02	6.15	1.10	0.62	30.25	13.85	2.75
1400	-26.67	-40.32	15.48	40.63	-19.68	-100.49	-19.36	-3.33	1.10	0.61	30.27	13.75	2.79
1500	-25.84	-45.48	15.39	30.96	-19.70	-107.71	-19.07	-10.54	1.11	0.60	30.55	13.80	2.75
1600	-25.07	-51.75	15.29	21.24	-19.74	-114.90	-18.69	-21.12	1.11	0.59	30.73	13.80	2.77
1700	-25.65	-61.88	15.21	11.77	-19.70	-122.27	-18.29	-31.55	1.12	0.59	31.20	13.93	2.77
1800	-25.57	-67.90	15.11	2.26	-19.72	-129.48	-17.91	-38.99	1.12	0.58	31.22	13.96	2.81
2000	-24.73	-86.67	14.93	-16.79	-19.71	-144.15	-17.97	-58.31	1.13	0.57	31.06	14.02	2.81
2200	-25.21	-102.77	14.73	-35.72	-19.76	-158.65	-17.10	-76.57	1.15	0.55	30.92	14.03	2.73
2400	-25.12	-123.07	14.54	-54.56	-19.79	-173.29	-17.04	-94.20	1.16	0.54	30.59	13.91	2.67
2600	-24.91	-146.41	14.35	-73.23	-19.82	172.16	-17.12	-113.54	1.18	0.52	30.34	13.82	2.70
2800	-24.74	-166.59	14.13	-91.88	-19.88	157.60	-16.87	-131.38	1.20	0.51	30.41	13.85	2.72
3000	-24.65	173.57	13.95	-110.36	-19.91	142.97	-17.22	-150.17	1.22	0.50	30.27	13.97	2.71
3200	-25.08	152.74	13.75	-128.85	-19.97	128.29	-17.02	-166.88	1.24	0.48	30.15	13.80	2.72
3400	-24.71	134.77	13.56	-147.30	-20.02	113.48	-17.42	174.93	1.26	0.47	29.77	13.65	2.72
3600	-24.20	112.90	13.33	-165.32	-20.17	99.20	-17.00	156.55	1.29	0.45	29.04	13.41	2.77
3800	-23.80	96.15	13.19	-176.47	-20.19	84.63	-17.60	139.47	1.31	0.44	28.43	13.38	2.75
4000	-23.62	79.15	12.99	-158.37	-20.32	70.08	-17.56	122.52	1.34	0.42	27.98	13.23	2.74
4200	-24.47	66.69	12.84	-139.91	-20.30	55.16	-17.92	107.60	1.36	0.42	27.59	13.15	2.76
4400	-25.27	52.61	12.71	-121.92	-20.37	40.87	-18.50	92.23	1.39	0.41	27.46	12.85	2.73
4600	-25.48	45.15	12.47	-103.66	-20.47	25.65	-18.41	76.30	1.43	0.39	26.90	12.79	2.79
4800	-25.65	29.19	12.32	-86.20	-20.64	11.45	-18.48	57.81	1.47	0.38	26.59	12.86	2.84
5000	-27.88	29.51	12.17	-67.56	-20.56	-3.43	-19.27	45.76	1.48	0.38	26.60	12.58	2.91
5200	-28.67	22.98	11.99	-49.85	-20.70	-18.15	-19.13	28.70	1.52	0.36	26.68	12.20	2.93
5400	-30.02	21.08	11.85	-32.09	-20.80	-32.41	-19.49	12.87	1.56	0.35	26.42	11.98	2.88
5600	-28.86	32.52	11.62	-14.05	-20.83	-47.90	-19.37	-0.07	1.60	0.34	26.00	11.67	2.80
5800	-27.68	35.85	11.48	-3.74	-20.89	-62.13	-19.85	-15.49	1.63	0.34	25.24	11.77	2.88
6000	-26.08	25.21	11.26	-21.09	-21.01	-77.73	-19.27	-31.49	1.68	0.33	24.92	11.66	2.91

TYPE: MMIC Amplifier  
 MODEL: ERA-2SM Reference Data:RDF-874AA  
 S PARAMETERS are presented in dB/deg Format  
 TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 32mA, Vd = 3.53V @Temperature = -45degC

**Definitions:**

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

FREQ	S11		S21		S12		S22		Stability		IP-3 Output (dBm)	1 dB Compression Output (dBm)	Noise Figure (dB)
	(MHz)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K			
50	-27.31	-1.35	16.20	174.53	-19.57	-4.10	-49.30	167.49	1.07	0.68	26.71	11.77	2.72
100	-27.41	-2.39	16.20	169.46	-19.62	-7.28	-41.88	129.74	1.08	0.67	26.57	11.58	2.69
200	-27.20	-12.15	16.16	159.43	-19.59	-14.25	-36.41	96.23	1.08	0.67	26.85	11.96	2.67
300	-27.54	-13.07	16.11	149.27	-19.57	-21.39	-34.47	92.57	1.08	0.67	26.84	11.94	2.77
400	-27.36	-18.02	16.06	139.17	-19.57	-28.52	-32.26	80.51	1.08	0.67	26.70	11.74	2.64
500	-27.85	-22.04	16.00	129.08	-19.56	-35.75	-29.84	70.51	1.08	0.66	26.59	11.91	2.70
600	-27.80	-23.45	15.94	119.11	-19.54	-42.94	-28.16	63.61	1.08	0.66	26.50	11.68	2.68
700	-27.57	-26.87	15.87	109.15	-19.53	-50.22	-26.97	51.47	1.09	0.65	26.49	11.93	2.68
800	-27.57	-30.65	15.79	99.25	-19.53	-57.50	-25.23	42.78	1.09	0.65	26.86	11.84	2.72
900	-27.76	-31.52	15.72	89.39	-19.54	-64.60	-23.71	35.28	1.09	0.64	26.53	11.37	2.70
1000	-28.03	-34.61	15.65	79.57	-19.52	-71.94	-22.79	27.82	1.09	0.64	26.49	11.58	2.61
1100	-27.74	-36.79	15.56	69.77	-19.54	-79.17	-22.02	19.81	1.10	0.63	26.69	11.23	2.68
1200	-27.30	-45.33	15.48	60.00	-19.54	-86.42	-21.54	9.23	1.10	0.62	26.71	11.58	2.64
1300	-27.07	-54.50	15.40	50.32	-19.53	-93.77	-20.87	-1.48	1.10	0.62	26.68	11.75	2.73
1400	-26.80	-59.09	15.31	40.63	-19.54	-100.97	-20.11	-10.11	1.11	0.61	26.76	11.52	2.78
1500	-26.19	-62.42	15.22	30.98	-19.54	-108.24	-19.85	-17.05	1.11	0.60	26.94	11.67	2.71
1600	-25.58	-67.73	15.13	21.24	-19.60	-115.43	-19.40	-27.24	1.12	0.59	27.13	11.56	2.74
1700	-26.11	-78.47	15.05	11.74	-19.56	-122.80	-18.92	-37.33	1.12	0.59	27.52	11.85	2.75
1800	-26.21	-84.10	14.95	2.24	-19.57	-130.11	-18.53	-44.31	1.13	0.58	27.60	12.00	2.76
2000	-25.37	-101.88	14.78	-16.84	-19.59	-144.73	-18.57	-63.85	1.14	0.57	27.49	12.01	2.76
2200	-26.01	-118.57	14.58	-35.79	-19.65	-159.37	-17.60	-81.24	1.15	0.55	27.51	12.13	2.67
2400	-25.89	-138.31	14.39	-54.67	-19.68	-173.98	-17.50	-98.65	1.17	0.54	27.60	11.77	2.66
2600	-25.46	-161.84	14.21	-73.38	-19.70	-171.27	-17.58	-118.19	1.18	0.52	27.72	11.59	2.69
2800	-25.23	178.42	13.99	-92.05	-19.77	156.77	-17.28	-135.60	1.20	0.51	28.10	11.90	2.70
3000	-25.11	159.28	13.81	-110.62	-19.82	142.00	-17.60	-154.52	1.22	0.49	28.24	12.21	2.65
3200	-25.45	137.10	13.62	-129.12	-19.88	127.35	-17.40	-171.04	1.24	0.48	28.10	12.30	2.67
3400	-25.12	120.22	13.44	-147.61	-19.94	112.42	-17.77	-170.66	1.27	0.47	28.14	12.22	2.70
3600	-24.49	98.94	13.21	-165.69	-20.10	98.09	-17.31	-152.34	1.30	0.45	27.54	12.13	2.70
3800	-24.16	82.35	13.07	176.06	-20.13	83.56	-17.92	135.12	1.32	0.44	27.18	12.20	2.72
4000	-24.03	66.31	12.87	157.91	-20.26	68.87	-17.85	118.35	1.36	0.42	26.76	12.23	2.72
4200	-25.17	52.15	12.73	139.41	-20.26	54.02	-18.22	103.24	1.37	0.41	26.45	12.13	2.69
4400	-26.22	36.11	12.60	121.37	-20.33	39.70	-18.82	87.58	1.40	0.41	26.27	11.92	2.72
4600	-26.96	29.93	12.36	103.03	-20.45	24.28	-18.71	71.95	1.44	0.39	25.81	11.82	2.78
4800	-27.26	13.74	12.21	85.53	-20.64	10.06	-18.75	53.42	1.48	0.37	25.47	11.94	2.81
5000	-31.32	13.21	12.06	66.81	-20.56	-4.71	-19.60	40.80	1.50	0.37	25.63	11.72	2.81
5200	-33.34	9.88	11.88	49.06	-20.71	-19.57	-19.43	23.84	1.54	0.36	25.56	11.46	2.85
5400	-36.36	20.38	11.75	31.23	-20.84	-33.79	-19.79	7.94	1.58	0.35	25.24	11.32	2.84
5600	-32.73	52.16	11.52	13.15	-20.86	-49.28	-19.68	-4.90	1.62	0.34	24.86	10.98	2.75
5800	-29.54	58.64	11.38	-4.71	-20.95	-63.72	-20.18	-20.84	1.66	0.33	24.23	11.10	2.82
6000	-27.30	45.02	11.17	-22.11	-21.07	-79.40	-19.60	-36.59	1.71	0.32	24.03	10.96	2.83

TYPE: MMIC Amplifier  
 MODEL: ERA-2SM Reference Data:RDF-874AA  
 S PARAMETERS are presented in dB/deg Format  
 TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 48mA, Vd = 3.63V @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	-35.32	2.30	16.53	174.52	-19.85	-4.21	-29.48	174.34	1.07	0.68	33.10	15.40	2.80
100	-35.11	7.94	16.52	169.45	-19.86	-7.27	-28.76	161.95	1.07	0.68	33.12	15.31	2.76
200	-35.30	1.96	16.48	159.40	-19.85	-14.24	-28.24	139.86	1.07	0.68	33.46	15.44	2.74
300	-34.71	13.92	16.44	149.23	-19.84	-21.20	-27.42	128.84	1.08	0.68	33.30	15.44	2.84
400	-33.56	11.43	16.38	139.14	-19.82	-28.27	-26.72	113.72	1.08	0.67	33.11	15.39	2.71
500	-33.36	14.28	16.32	129.05	-19.82	-35.36	-25.53	99.46	1.08	0.67	32.81	15.35	2.74
600	-31.81	14.78	16.25	119.08	-19.80	-42.66	-24.62	87.36	1.08	0.66	32.74	15.40	2.75
700	-30.63	10.79	16.18	109.11	-19.79	-49.80	-23.96	74.53	1.08	0.66	32.69	15.37	2.76
800	-29.84	8.50	16.10	99.21	-19.80	-57.08	-22.78	62.25	1.09	0.65	33.14	15.24	2.77
900	-28.96	6.98	16.02	89.37	-19.79	-64.10	-21.62	51.60	1.09	0.65	32.82	15.15	2.77
1000	-28.49	3.93	15.94	79.57	-19.78	-71.32	-20.88	42.55	1.09	0.64	32.77	15.20	2.72
1100	-27.50	-0.10	15.85	69.78	-19.77	-78.51	-20.25	32.96	1.09	0.63	32.90	15.06	2.78
1200	-27.04	-10.77	15.77	60.02	-19.78	-85.75	-19.90	22.17	1.10	0.63	33.03	15.10	2.74
1300	-26.77	-20.83	15.69	50.36	-19.78	-93.04	-19.44	10.50	1.10	0.62	32.71	15.14	2.82
1400	-26.22	-28.27	15.59	40.71	-19.77	-100.19	-18.83	0.79	1.10	0.61	32.79	15.20	2.83
1500	-25.31	-34.85	15.50	31.06	-19.78	-107.39	-18.57	-6.84	1.11	0.61	32.99	15.10	2.79
1600	-24.47	-41.93	15.40	21.35	-19.83	-114.51	-18.22	-17.46	1.11	0.59	33.23	15.13	2.80
1700	-25.08	-51.75	15.31	11.88	-19.79	-121.88	-17.86	-27.90	1.11	0.59	33.78	15.06	2.81
1800	-24.90	-58.11	15.21	2.38	-19.80	-129.05	-17.51	-35.76	1.12	0.58	33.41	15.18	2.83
2000	-24.12	-77.70	15.03	-16.64	-19.80	-143.74	-17.60	-55.12	1.13	0.57	33.11	15.19	2.85
2200	-24.50	-93.60	14.83	-35.52	-19.85	-158.19	-16.76	-73.57	1.14	0.55	32.91	15.18	2.79
2400	-24.46	-113.93	14.63	-54.32	-19.87	-172.77	-16.72	-91.33	1.16	0.54	32.24	15.08	2.71
2600	-24.37	-137.15	14.44	-72.98	-19.89	-172.75	-16.84	-110.69	1.17	0.53	31.63	15.02	2.75
2800	-24.23	-157.34	14.22	-91.56	-19.95	-158.16	-16.61	-128.55	1.19	0.51	31.42	14.93	2.78
3000	-24.14	-177.01	14.03	-110.04	-19.98	-143.57	-16.97	-147.26	1.21	0.50	31.21	14.77	2.72
3200	-24.60	162.71	13.84	-128.46	-20.02	128.98	-16.78	-164.06	1.23	0.48	30.71	14.47	2.82
3400	-24.23	144.65	13.64	-146.89	-20.08	114.19	-17.19	177.78	1.25	0.47	30.56	14.30	2.78
3600	-23.85	122.10	13.41	-164.88	-20.22	99.91	-16.80	159.19	1.29	0.45	29.71	13.95	2.79
3800	-23.39	105.32	13.26	-176.96	-20.24	85.44	-17.41	142.37	1.31	0.44	29.00	13.96	2.82
4000	-23.19	88.32	13.06	-158.91	-20.35	70.81	-17.39	125.31	1.34	0.42	28.52	13.75	2.80
4200	-23.82	76.26	12.91	-140.48	-20.34	55.98	-17.73	110.39	1.36	0.42	28.19	13.69	2.81
4400	-24.44	62.81	12.78	-122.54	-20.39	41.81	-18.30	95.18	1.38	0.41	28.03	13.43	2.76
4600	-24.33	54.53	12.54	-104.33	-20.50	26.53	-18.22	79.35	1.42	0.39	27.49	13.38	2.83
4800	-24.41	38.59	12.38	-86.93	-20.66	12.33	-18.32	60.80	1.46	0.38	27.18	13.39	2.89
5000	-25.84	37.08	12.23	-68.32	-20.56	-2.48	-19.08	49.01	1.47	0.38	27.27	13.11	2.95
5200	-26.25	28.61	12.05	-50.68	-20.70	-17.20	-18.94	32.09	1.51	0.36	27.29	12.68	2.97
5400	-26.96	22.73	11.91	-32.97	-20.80	-31.37	-19.30	16.37	1.55	0.36	27.01	12.44	2.92
5600	-26.31	26.48	11.68	-14.96	-20.79	-46.84	-19.14	3.46	1.58	0.35	26.58	12.13	2.93
5800	-25.72	25.24	11.54	-2.77	-20.86	-61.13	-19.62	-11.80	1.61	0.34	25.82	12.21	2.90
6000	-24.56	14.60	11.32	-20.08	-20.94	-76.68	-19.10	-27.58	1.65	0.33	25.54	12.16	3.06

TYPE: MMIC Amplifier  
 MODEL: ERA-2SM Reference Data:RDF-874AA  
 S PARAMETERS are presented in dB/deg Format  
 TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 40mA, Vd = 3.27V @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			
50	-33.27	2.24	16.29	174.51	-19.68	-3.60	-31.79	168.49	1.08	0.68	29.10	13.61	3.56
100	-33.77	9.45	16.28	169.47	-19.74	-7.21	-29.78	159.07	1.08	0.67	29.01	13.49	3.54
200	-34.31	9.59	16.22	159.52	-19.70	-13.88	-29.09	143.66	1.08	0.67	29.38	13.68	3.55
300	-33.40	10.02	16.18	149.48	-19.70	-20.62	-28.81	127.50	1.08	0.67	29.19	13.63	3.65
400	-32.80	3.71	16.11	139.52	-19.70	-27.53	-27.78	110.43	1.08	0.66	28.97	13.54	3.57
500	-32.61	5.26	16.05	129.55	-19.69	-34.44	-26.51	97.79	1.09	0.66	28.73	13.56	3.64
600	-31.66	6.12	15.97	119.75	-19.68	-41.28	-25.43	86.41	1.09	0.65	28.60	13.58	3.61
700	-30.64	0.12	15.90	109.93	-19.67	-48.31	-24.75	74.11	1.09	0.65	28.54	13.54	3.64
800	-29.84	-4.66	15.82	100.17	-19.67	-55.24	-23.81	61.55	1.09	0.64	28.96	13.39	3.66
900	-28.96	-9.36	15.73	90.49	-19.68	-62.08	-22.88	50.42	1.10	0.63	28.57	13.27	3.67
1000	-28.25	-16.56	15.65	80.79	-19.67	-69.13	-22.26	39.93	1.10	0.63	28.44	13.37	3.61
1100	-27.63	-22.43	15.56	71.16	-19.67	-76.12	-21.69	29.20	1.10	0.62	28.63	13.19	3.69
1200	-27.22	-30.88	15.47	61.55	-19.67	-83.09	-21.11	18.92	1.11	0.61	28.61	13.24	3.63
1300	-26.93	-37.89	15.38	52.02	-19.66	-90.12	-20.59	9.13	1.11	0.61	28.41	13.30	3.75
1400	-26.62	-46.42	15.29	42.51	-19.68	-97.12	-20.05	-1.04	1.12	0.60	28.42	13.24	3.79
1500	-26.28	-55.62	15.20	33.01	-19.68	-104.09	-19.60	-10.17	1.12	0.59	28.56	13.29	3.75
1600	-26.05	-61.99	15.10	23.56	-19.70	-111.10	-19.25	-19.79	1.13	0.58	28.75	13.15	3.73
1700	-25.76	-71.72	15.01	14.15	-19.70	-118.15	-18.92	-28.94	1.13	0.58	29.22	13.18	3.76
1800	-25.78	-80.75	14.90	4.78	-19.71	-125.02	-18.65	-38.42	1.14	0.57	29.13	13.24	3.83
2000	-25.89	-98.73	14.71	-13.94	-19.74	-139.30	-18.12	-56.08	1.15	0.55	28.76	13.28	3.81
2200	-25.67	-118.82	14.50	-32.52	-19.77	-153.21	-17.77	-74.37	1.17	0.54	28.53	13.23	3.72
2400	-25.80	-139.00	14.30	-51.03	-19.82	-167.31	-17.51	-91.66	1.18	0.52	28.09	13.02	3.70
2600	-25.60	-161.58	14.10	-69.38	-19.87	178.43	-17.44	-109.29	1.20	0.51	27.75	12.85	3.72
2800	-25.65	177.41	13.89	-87.67	-19.91	164.37	-17.43	-126.68	1.22	0.49	27.69	12.85	3.73
3000	-25.47	155.60	13.69	-105.83	-19.98	150.42	-17.45	-144.42	1.25	0.48	27.39	12.69	3.70
3200	-25.47	133.18	13.50	-124.01	-20.04	136.21	-17.63	-162.11	1.27	0.47	27.00	12.40	3.82
3400	-25.05	111.93	13.29	-142.05	-20.13	121.98	-17.68	-179.83	1.30	0.45	26.81	12.10	3.79
3600	-24.45	93.70	13.08	-159.88	-20.24	108.07	-17.77	161.83	1.33	0.43	25.88	11.76	3.83
3800	-24.27	72.66	12.91	-177.75	-20.32	94.01	-17.88	143.95	1.36	0.42	25.28	11.75	3.84
4000	-24.32	54.33	12.73	164.43	-20.41	79.97	-17.94	127.33	1.39	0.41	24.81	11.62	3.80
4200	-25.47	35.46	12.55	146.29	-20.45	65.55	-18.13	112.29	1.42	0.40	24.57	11.57	3.84
4400	-26.49	17.58	12.38	128.45	-20.51	51.51	-18.44	96.42	1.45	0.39	24.25	11.12	3.85
4600	-27.01	6.80	12.16	111.06	-20.73	37.28	-18.09	80.09	1.50	0.37	23.86	11.06	4.01
4800	-29.55	-8.46	11.98	93.45	-20.82	23.21	-18.30	65.71	1.54	0.36	23.65	11.13	4.05
5000	-33.81	-21.30	11.77	75.84	-20.95	8.75	-18.30	52.37	1.59	0.35	23.71	10.83	4.05
5200	-42.52	-98.47	11.66	58.02	-20.97	-4.71	-19.06	38.73	1.61	0.34	23.70	10.39	4.04
5400	-36.81	146.42	11.44	40.50	-21.08	-19.35	-18.88	26.11	1.66	0.33	23.37	10.07	4.02
5600	-29.43	111.06	11.20	22.92	-21.12	-34.14	-19.01	15.32	1.71	0.32	22.68	9.70	4.04
5800	-28.11	98.92	11.07	6.49	-21.51	-48.29	-18.85	-2.98	1.79	0.30	22.01	9.87	4.08
6000	-25.23	89.70	10.92	-10.81	-21.64	-62.47	-19.12	-17.92	1.84	0.30	21.83	9.78	4.28

TYPE: MMIC Amplifier  
 MODEL: ERA-2SM Reference Data:RDF-874AA  
 S PARAMETERS are presented in dB/deg Format  
 TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 32mA, Vd = 3.22V @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	-27.40	-1.11	16.04	174.53	-19.49	-3.84	-51.54	127.97	1.08	0.67	25.76	11.81	3.48
100	-27.73	-1.28	16.02	169.49	-19.51	-7.22	-39.08	134.22	1.08	0.67	25.66	11.59	3.52
200	-28.38	-5.63	15.97	159.55	-19.49	-14.19	-36.13	120.03	1.08	0.67	25.97	11.90	3.54
300	-28.33	-9.83	15.93	149.53	-19.52	-20.82	-34.80	100.62	1.08	0.66	25.88	11.93	3.62
400	-28.02	-17.27	15.87	139.57	-19.50	-27.74	-32.16	82.38	1.09	0.66	25.69	11.61	3.54
500	-28.22	-20.95	15.80	129.64	-19.50	-34.65	-30.16	73.33	1.09	0.65	25.51	11.85	3.60
600	-28.16	-23.00	15.73	119.81	-19.48	-41.59	-28.42	66.02	1.09	0.65	25.41	11.66	3.60
700	-27.87	-27.93	15.65	110.01	-19.48	-48.62	-27.25	55.42	1.09	0.64	25.39	11.86	3.61
800	-27.53	-32.99	15.58	100.26	-19.48	-55.58	-25.87	44.80	1.10	0.64	25.78	11.72	3.63
900	-27.26	-37.00	15.50	90.57	-19.47	-62.60	-24.67	35.16	1.10	0.63	25.40	11.32	3.63
1000	-26.91	-42.69	15.41	80.86	-19.47	-69.58	-23.83	26.44	1.10	0.62	25.32	11.63	3.55
1100	-26.71	-46.95	15.33	71.25	-19.47	-76.65	-23.04	17.10	1.11	0.62	25.50	11.26	3.67
1200	-26.47	-54.51	15.25	61.62	-19.49	-83.62	-22.34	7.60	1.11	0.61	25.51	11.48	3.59
1300	-26.35	-62.02	15.17	52.08	-19.50	-90.73	-21.71	-1.52	1.12	0.60	25.38	11.63	3.74
1400	-26.15	-69.72	15.08	42.57	-19.49	-97.74	-21.10	-11.27	1.12	0.60	25.43	11.44	3.74
1500	-25.91	-78.24	14.98	33.07	-19.51	-104.77	-20.54	-19.37	1.13	0.59	25.58	11.61	3.71
1600	-25.91	-84.03	14.89	23.60	-19.52	-111.79	-20.12	-28.48	1.13	0.58	25.74	11.44	3.71
1700	-25.63	-93.18	14.80	14.17	-19.53	-118.83	-19.78	-37.39	1.14	0.58	26.13	11.69	3.73
1800	-25.68	-102.26	14.70	4.78	-19.54	-125.90	-19.43	-46.47	1.14	0.57	26.22	11.72	3.79
2000	-25.89	-119.39	14.51	-13.97	-19.57	-140.06	-18.80	-63.02	1.16	0.55	26.00	11.79	3.75
2200	-25.63	-139.28	14.32	-32.57	-19.62	-154.12	-18.39	-81.09	1.17	0.54	25.92	11.79	3.70
2400	-25.65	-160.07	14.12	-51.13	-19.67	-168.32	-18.11	-98.06	1.19	0.52	25.85	11.47	3.65
2600	-25.31	179.10	13.92	-69.50	-19.73	177.47	-17.97	-115.15	1.21	0.51	25.92	11.34	3.70
2800	-25.27	158.37	13.72	-87.87	-19.79	163.36	-17.94	-132.59	1.23	0.49	26.15	11.55	3.70
3000	-24.95	136.43	13.52	-106.06	-19.87	149.18	-17.92	-150.45	1.26	0.48	26.02	11.65	3.69
3200	-24.80	115.15	13.34	-124.29	-19.94	134.96	-18.06	-167.86	1.28	0.46	25.81	11.48	3.75
3400	-24.30	94.53	13.14	-142.37	-20.02	120.70	-18.09	174.36	1.31	0.45	25.68	11.23	3.74
3600	-23.85	77.85	12.92	-160.28	-20.15	106.60	-18.09	156.15	1.34	0.43	24.92	10.90	3.77
3800	-23.61	57.19	12.76	-178.20	-20.23	92.58	-18.17	138.40	1.37	0.42	24.43	10.99	3.79
4000	-23.59	38.05	12.58	163.89	-20.35	78.46	-18.22	121.75	1.40	0.41	23.94	11.00	3.76
4200	-24.66	17.89	12.40	145.73	-20.39	64.01	-18.41	106.83	1.43	0.40	23.73	10.85	3.81
4400	-25.56	-2.19	12.23	127.81	-20.47	49.99	-18.71	91.02	1.46	0.39	23.49	10.43	3.80
4600	-26.30	-16.24	12.02	110.35	-20.70	35.64	-18.35	74.67	1.52	0.37	23.16	10.30	3.93
4800	-28.50	-39.62	11.84	92.66	-20.81	21.48	-18.55	60.20	1.56	0.36	22.92	10.41	3.99
5000	-31.88	-67.78	11.63	75.00	-20.94	6.89	-18.55	47.09	1.61	0.34	23.03	10.20	3.95
5200	-32.15	-127.67	11.53	57.13	-20.99	-6.45	-19.36	32.81	1.64	0.34	23.03	9.73	3.98
5400	-30.48	179.15	11.30	39.52	-21.12	-21.07	-19.21	20.25	1.69	0.33	22.56	9.51	3.97
5600	-27.22	136.61	11.07	21.87	-21.18	-36.08	-19.41	9.33	1.74	0.32	21.97	9.09	3.90
5800	-25.94	120.75	10.93	5.31	-21.61	-50.29	-19.21	-8.98	1.84	0.30	21.42	9.26	4.01
6000	-23.47	104.01	10.78	-12.03	-21.75	-64.52	-19.49	-23.99	1.89	0.29	21.25	9.14	4.18

TYPE: MMIC Amplifier  
 MODEL: ERA-2SM Reference Data:RDF-874AA  
 S PARAMETERS are presented in dB/deg Format  
 TEST CONDITIONS: INPUT POWER = -20dBm, Icc = 48mA, Vd = 3.32V @Temperature = +85degC

**Definitions:**

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

FREQ (MHz)	S11		S21		S12		S22		Stability		IP-3 Output (dBm)	1 dB Compression Output (dBm)	Noise Figure (dB)
	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	(dB)	(deg)	K	Delta			
50	-38.99	11.04	16.45	174.49	-19.81	-3.97	-28.11	172.27	1.07	0.68	31.85	14.80	3.59
100	-40.75	37.30	16.43	169.45	-19.83	-7.35	-26.68	162.24	1.08	0.68	31.88	14.79	3.59
200	-39.53	52.16	16.38	159.49	-19.85	-13.87	-26.12	148.57	1.08	0.67	32.29	14.77	3.59
300	-37.04	46.39	16.33	149.46	-19.82	-20.56	-26.06	134.39	1.08	0.67	31.87	14.70	3.65
400	-35.70	34.84	16.27	139.50	-19.83	-27.33	-25.41	118.40	1.08	0.66	31.63	14.72	3.60
500	-34.26	37.08	16.19	129.55	-19.83	-34.29	-24.60	105.34	1.09	0.66	31.20	14.64	3.71
600	-32.38	34.71	16.12	119.74	-19.81	-41.18	-23.79	93.46	1.09	0.65	31.00	14.75	3.65
700	-31.12	26.23	16.04	109.92	-19.80	-48.03	-23.28	81.25	1.09	0.65	30.87	14.59	3.69
800	-29.99	17.85	15.96	100.17	-19.80	-54.99	-22.51	68.54	1.09	0.64	31.21	14.39	3.71
900	-28.93	10.80	15.87	90.50	-19.80	-61.91	-21.78	56.90	1.10	0.63	30.80	14.41	3.69
1000	-28.12	2.18	15.79	80.81	-19.79	-68.85	-21.28	46.03	1.10	0.63	30.53	14.43	3.63
1100	-27.34	-5.10	15.70	71.19	-19.79	-75.77	-20.77	35.36	1.10	0.62	30.57	14.25	3.74
1200	-26.95	-14.78	15.61	61.57	-19.80	-82.76	-20.25	24.85	1.11	0.61	30.49	14.18	3.67
1300	-26.58	-22.91	15.52	52.07	-19.79	-89.74	-19.83	14.58	1.11	0.61	30.15	14.31	3.82
1400	-26.25	-31.85	15.42	42.57	-19.79	-96.68	-19.39	4.06	1.11	0.60	30.09	14.35	3.81
1500	-25.91	-41.35	15.33	33.08	-19.80	-103.68	-18.99	-5.44	1.12	0.59	30.17	14.18	3.76
1600	-25.61	-48.77	15.23	23.63	-19.81	-110.62	-18.67	-15.09	1.12	0.58	30.32	14.08	3.75
1700	-25.34	-59.01	15.13	14.23	-19.81	-117.64	-18.39	-24.55	1.13	0.58	30.56	13.89	3.76
1800	-25.33	-67.99	15.03	4.88	-19.82	-124.59	-18.16	-34.24	1.13	0.57	30.11	14.04	3.84
2000	-25.38	-85.20	14.83	-13.80	-19.84	-138.64	-17.65	-52.00	1.15	0.55	29.71	14.00	3.85
2200	-25.30	-106.45	14.62	-32.34	-19.88	-152.59	-17.36	-70.49	1.16	0.54	29.21	13.90	3.77
2400	-25.40	-126.18	14.41	-50.81	-19.91	-166.70	-17.15	-88.05	1.18	0.52	28.48	13.75	3.75
2600	-25.32	-148.18	14.21	-69.13	-19.95	179.24	-17.08	-105.67	1.20	0.51	27.85	13.55	3.76
2800	-25.47	-169.49	14.00	-87.39	-20.01	165.19	-17.10	-123.13	1.22	0.49	27.56	13.39	3.77
3000	-25.41	168.77	13.79	-105.49	-20.06	151.15	-17.16	-141.07	1.24	0.48	27.20	13.15	3.76
3200	-25.54	146.29	13.60	-123.63	-20.11	137.07	-17.34	-158.50	1.27	0.47	26.82	12.82	3.83
3400	-25.21	124.83	13.39	-141.61	-20.18	122.87	-17.44	-176.43	1.29	0.45	26.52	12.58	3.88
3600	-24.60	106.26	13.18	-159.41	-20.30	108.92	-17.53	165.25	1.33	0.43	25.71	12.19	3.89
3800	-24.49	84.73	13.00	-177.23	-20.37	94.99	-17.66	147.51	1.35	0.42	25.08	12.18	3.91
4000	-24.52	66.59	12.82	164.99	-20.44	80.94	-17.75	130.62	1.38	0.41	24.63	12.01	3.87
4200	-25.69	50.20	12.64	146.93	-20.48	66.55	-17.94	115.74	1.41	0.40	24.47	11.96	3.92
4400	-26.68	33.81	12.47	129.11	-20.53	52.62	-18.25	99.98	1.44	0.39	24.25	11.59	3.92
4600	-26.85	23.52	12.24	111.74	-20.74	38.38	-17.94	83.45	1.49	0.37	23.86	11.54	4.09
4800	-29.01	13.63	12.06	94.20	-20.84	24.31	-18.14	69.05	1.53	0.36	23.57	11.56	4.13
5000	-31.88	11.62	11.86	76.68	-20.93	9.94	-18.12	55.82	1.57	0.35	23.54	11.24	4.09
5200	-40.94	17.41	11.74	58.90	-20.94	-3.47	-18.86	42.52	1.60	0.35	23.58	10.81	4.15
5400	-36.74	88.90	11.52	41.41	-21.05	-18.07	-18.67	29.72	1.64	0.33	23.30	10.48	4.08
5600	-29.32	86.85	11.29	23.91	-21.08	-32.97	-18.75	18.97	1.69	0.33	22.62	10.16	4.11
5800	-28.40	76.55	11.15	7.53	-21.45	-47.05	-18.63	0.81	1.77	0.31	21.91	10.29	4.13
6000	-25.96	73.41	11.01	-9.67	-21.54	-61.23	-18.88	-13.58	1.81	0.30	21.69	10.21	4.35