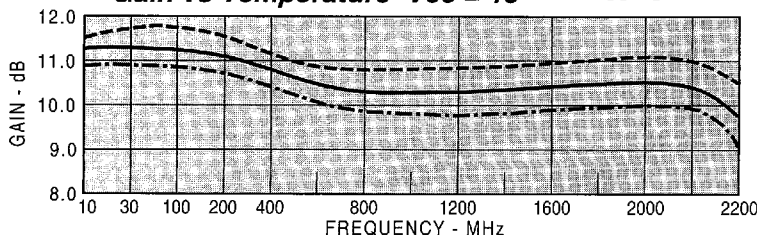


AC2075

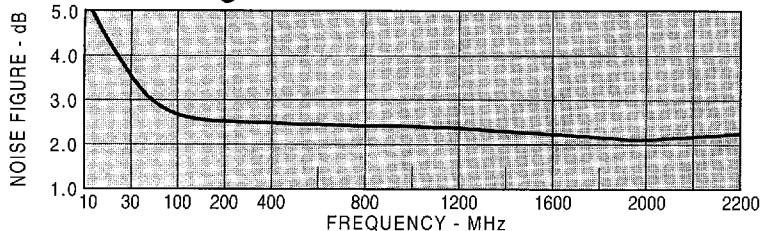
Typical Performance

KEY: +25 °C —
+85 °C - - -
-55 °C - - -

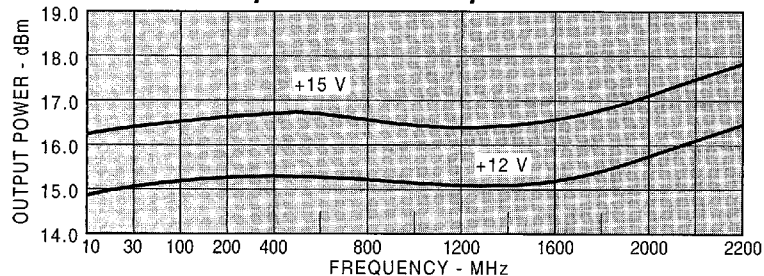
Gain vs Temperature Vcc = 15



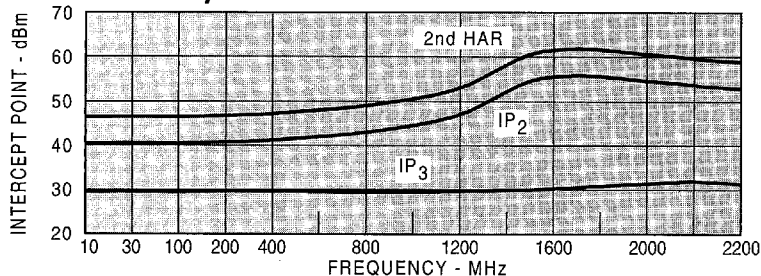
Noise Figure Vcc = 15/12



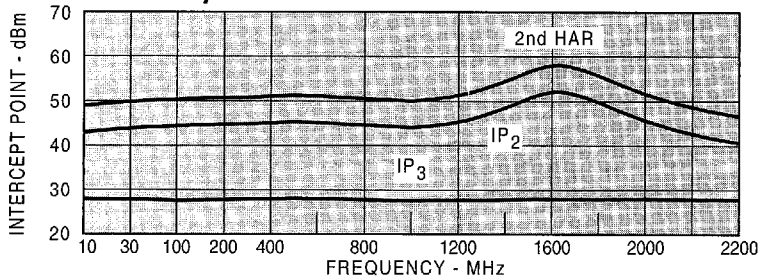
Power Output at 1 dB Compression



Intercept Point Vcc = 15



Intercept Point Vcc = 12



Typical Automatic Test Data

Model: AC2075		Vcc=+15V		Icc=50.01	
FREQ	SWR	SWR	GAIN	PHASE	GROUP DELAY
MHz	IN	OUT	DB	DEG	NSEC
5	2.19	1.97	10.53	-137	
10	1.48	1.74	10.99	-160	
50	1.21	1.72	10.97	178	0.9
100	1.21	1.70	10.91	170	0.44
200	1.24	1.61	10.64	157	0.35
400	1.30	1.52	10.36	138	0.27
600	1.33	1.52	10.34	117	0.29
800	1.38	1.51	10.33	97	0.29
1000	1.42	1.48	10.30	76	0.3
1200	1.44	1.43	10.32	55	0.3
1400	1.44	1.40	10.49	33	0.31
1600	1.42	1.39	10.65	10	0.32
1800	1.40	1.40	10.88	-15	0.34
2000	1.55	1.46	11.03	-46	0.44
2200	2.48	1.49	10.20	-83	0.54
2400	5.18	1.38	7.66	-119	0.48

LINEAR S-PARAMETERS

Model: AC2075		Vcc=+15V				Icc=50.01		
FREQ.	S11	S21	S12	S22				
MHz	MAG	ANG	MAG	ANG	MAG	ANG	MAG	ANG
5	0.37	-60.4	3.36	-136.9	0.102	33.7	0.33	-164.8
10	0.19	-58.2	3.54	-159.9	0.106	15.9	0.27	-172.7
50	0.10	-23.4	3.54	177.9	0.104	1.7	0.26	176.7
100	0.09	-19.2	3.51	170.0	0.105	-1.7	0.26	168.9
200	0.11	-24.7	3.41	157.4	0.109	-6.7	0.23	157.1
400	0.13	-52.3	3.30	137.8	0.112	-19.2	0.21	149.6
600	0.14	-73.5	3.29	117.4	0.111	-30.6	0.21	139.5
800	0.16	-88.5	3.28	96.6	0.112	-41.0	0.20	128.9
1000	0.17	-99.6	3.27	75.8	0.112	-51.8	0.19	118.4
1200	0.18	-109.3	3.28	54.8	0.113	-64.0	0.18	108.3
1400	0.18	-120.7	3.34	33.1	0.116	-76.2	0.17	99.4
1600	0.17	-137.5	3.41	10.2	0.118	-92.0	0.16	90.5
1800	0.17	-173.3	3.50	-15.1	0.121	-109.6	0.17	77.9
2000	0.22	126.9	3.56	-46.3	0.119	-131.3	0.19	55.7
2200	0.42	68.7	3.24	-82.9	0.099	-158.1	0.20	19.7
2400	0.68	25.6	2.42	-118.6	0.062	-170.7	0.16	-20.1

Model: AC2075		Vcc=+12V		Icc=45.57	
FREQ	SWR	SWR	GAIN	PHASE	GROUP DELAY
MHz	IN	OUT	DB	DEG	NSEC
5	2.16	2.01	10.25	-138	
10	1.50	1.78	10.70	-160	
50	1.25	1.77	10.68	178	0.9
100	1.25	1.75	10.62	170	0.44
200	1.28	1.65	10.37	157	0.35
400	1.35	1.55	10.07	138	0.27
600	1.38	1.57	10.05	117	0.29
800	1.43	1.56	10.04	96	0.3
1000	1.48	1.52	10.00	75	0.3
1200	1.49	1.49	10.02	54	0.3
1400	1.48	1.46	10.21	32	0.31
1600	1.47	1.46	10.35	9	0.32
1800	1.46	1.48	10.56	-17	0.34
2000	1.67	1.54	10.68	-49	0.46
2200	2.70	1.53	9.67	-85	0.54
2400	5.51	1.36	6.90	-120	0.46

LINEAR S-PARAMETERS

Model:AC2075		Vcc=+12V				Icc=45.57	
FREQ.	S11	S21	S12	S22	ANG	ANG	ANG
MHz	MAG	ANG	MAG	ANG	MAG	ANG	MAG
5	0.37	-57.9	3.26	-137.6	0.101	33.0	0.33
10	0.20	-53.1	3.43	-160.2	0.104	15.7	0.28
50	0.11	-20.3	3.42	177.8	0.103	1.6	0.28
100	0.11	-18.1	3.40	169.9	0.104	-1.8	0.27
200	0.12	-24.2	3.30	157.3	0.107	-6.0	0.24
400	0.15	-51.5	3.19	137.5	0.111	-18.1	0.22
600	0.16	-73.2	3.18	117.1	0.111	-29.1	0.22
800	0.18	-88.9	3.18	96.1	0.112	-38.5	0.22
1000	0.19	-101.3	3.16	75.2	0.114	-49.2	0.21
1200	0.20	-112.2	3.17	54.1	0.117	-61.3	0.20
1400	0.20	-125.5	3.24	32.3	0.121	-73.5	0.19
1600	0.19	-144.4	3.29	9.2	0.125	-88.7	0.19
1800	0.19	178.3	3.37	-16.6	0.129	-106.6	0.20
2000	0.25	120.8	3.42	-48.6	0.128	-128.9	0.21
2200	0.46	65.3	3.04	-85.5	0.109	-156.2	0.21
2400	0.69	23.5	2.21	-120.1	0.072	-169.6	0.15



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