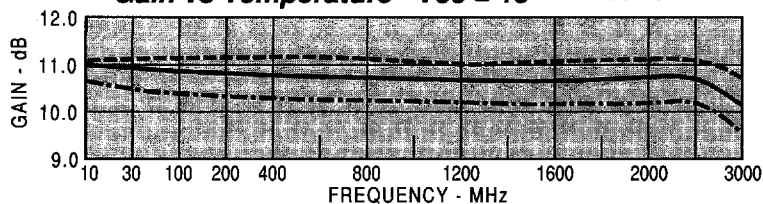


AC2577

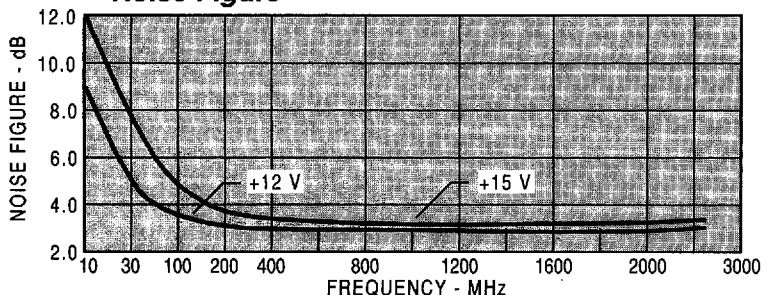
Typical Performance

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

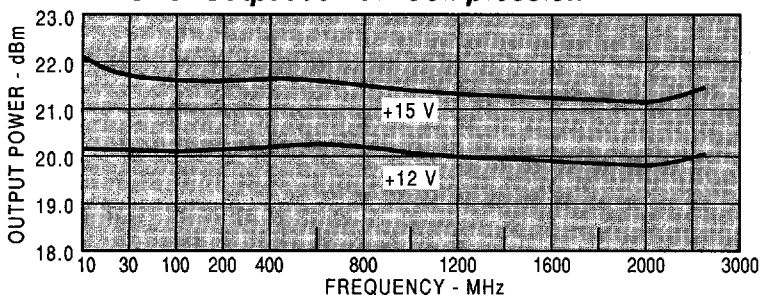
Gain vs Temperature $V_{CC} = 15$



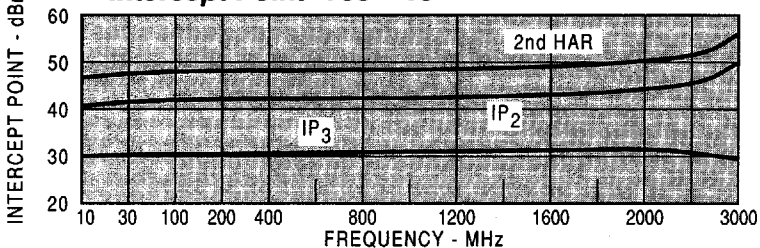
Noise Figure



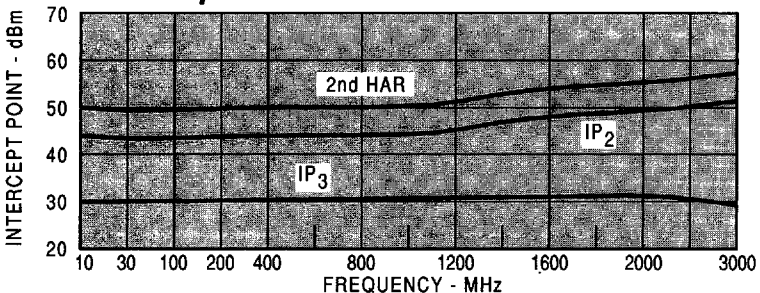
Power Output at 1 dB Compression



Intercept Point $V_{CC} = 15$



Intercept Point $V_{CC} = 12$



Typical Automatic Test Data

MODEL:AC2577

$V_{CC}=+15V$ $I_{CC}= 98.75$ mA

FREQUENCY	VSUR	VSUR	GAIN	GROUP DELAY	REV/ISO
MHZ	IN	OUT	DB	NSEC	DB
10.0	1.62	1.52	11.1		-17.0
50.0	1.10	1.49	11.1		-17.2
100.0	1.06	1.47	11.0	.372	-17.1
300.0	1.05	1.39	10.8	.215	-16.9
500.0	1.07	1.41	10.8	.210	-17.0
700.0	1.10	1.41	10.8	.212	-17.0
900.0	1.12	1.40	10.8	.209	-17.0
1100.0	1.13	1.38	10.8	.208	-17.0
1300.0	1.14	1.35	10.8	.212	-16.9
1500.0	1.15	1.31	10.8	.212	-16.9
1700.0	1.16	1.26	10.9	.212	-16.8
1900.0	1.16	1.23	10.9	.218	-16.7
2100.0	1.15	1.21	10.9	.221	-16.6
2300.0	1.13	1.21	11.0	.227	-16.6
2500.0	1.09	1.22	11.0	.233	-16.5
2700.0	1.07	1.28	10.9	.255	-16.3

LINEAR S-PARAMETERS

MODEL:AC2577

$V_{CC}=+15V$ $I_{CC}= 98.75$ mA

FREQ.	S11	S21	S12	S22
MHZ	MAG	ANG	MAG	ANG
10	.24	-92.5	3.60	-155.6
50	.05	-138.8	3.57	-179.3
100	.03	-175.9	3.53	-174.8
300	.02	145.5	3.45	162.2
500	.03	121.7	3.46	149.9
700	.05	100.7	3.45	137.6
900	.06	83.6	3.45	125.4
1100	.06	65.5	3.46	113.3
1300	.07	47.5	3.47	100.9
1500	.07	27.8	3.49	88.5
1700	.07	6.0	3.50	76.1
1900	.07	-13.4	3.49	63.2
2100	.07	-29.6	3.51	50.3
2300	.06	-44.8	3.55	36.8
2500	.04	-39.4	3.53	22.8
2700	.04	-7.3	3.51	7.4

MODEL:AC2577

$V_{CC}=+12V$ $I_{CC}= 82.70$ mA

FREQUENCY	VSUR	VSUR	GAIN	GROUP DELAY	REV/ISO
MHZ	IN	OUT	DB	NSEC	DB
10.0	1.59	1.55	10.9		-17.1
50.0	1.09	1.52	10.9		-17.3
100.0	1.04	1.49	10.8	.372	-17.2
300.0	1.02	1.42	10.6	.215	-17.0
500.0	1.05	1.43	10.6	.210	-17.1
700.0	1.07	1.44	10.6	.212	-17.1
900.0	1.09	1.42	10.6	.210	-17.0
1100.0	1.11	1.40	10.6	.206	-17.0
1300.0	1.12	1.38	10.7	.213	-16.9
1500.0	1.13	1.34	10.7	.211	-16.7
1700.0	1.14	1.29	10.7	.211	-16.6
1900.0	1.14	1.25	10.7	.219	-16.5
2100.0	1.14	1.23	10.8	.220	-16.3
2300.0	1.11	1.21	10.9	.227	-16.2
2500.0	1.06	1.21	10.9	.238	-16.1
2700.0	1.04	1.25	10.9	.256	-15.8

LINEAR S-PARAMETERS

MODEL:AC2577

$V_{CC}=+12V$ $I_{CC}= 82.70$ mA

FREQ.	S11	S21	S12	S22
MHZ	MAG	ANG	MAG	ANG
10	.23	-88.6	3.51	-156.2
50	.04	-122.9	3.50	-179.9
100	.02	-163.3	3.46	-173.5
300	.01	129.3	3.39	157.9
500	.02	103.3	3.40	142.8
700	.03	81.6	3.39	127.6
900	.04	62.4	3.39	112.5
1100	.05	41.3	3.41	97.6
1300	.06	20.0	3.42	82.3
1500	.06	-3.4	3.44	67.1
1700	.07	-28.2	3.44	51.9
1900	.07	-50.6	3.44	36.1
2100	.06	-71.0	3.47	20.2
2300	.05	-94.2	3.52	3.9
2500	.03	-93.1	3.50	-13.3
2700	.02	-23.6	3.51	-31.7

