

Typical Values

**High Performance Thin Film
Standard Size TO-8 Package**

SPECIFICATIONS*

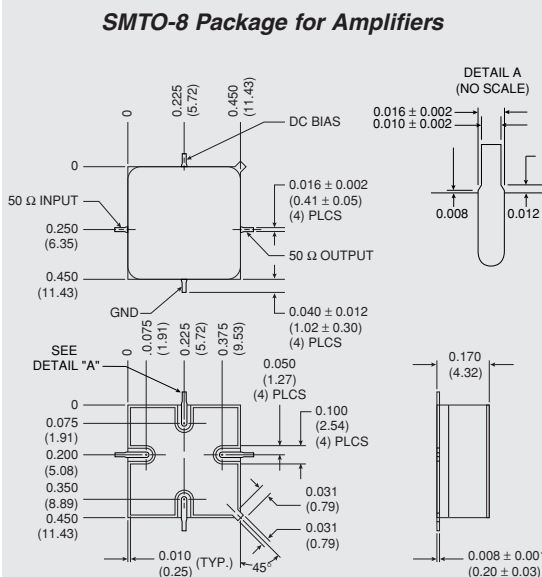
* Measured in a 50-ohm system at +5 Vdc unless otherwise specified.

INTERMODULATION PERFORMANCE

ABSOLUTE MAXIMUM RATINGS

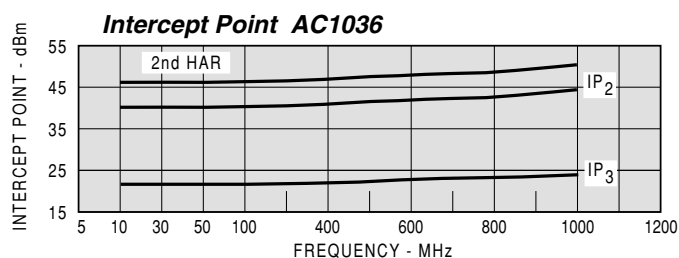
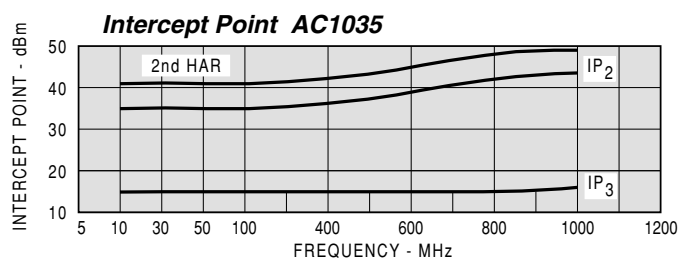
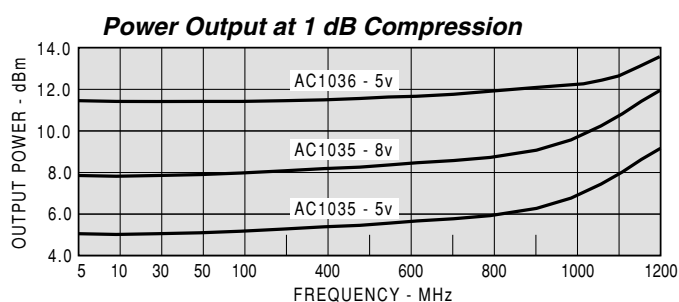
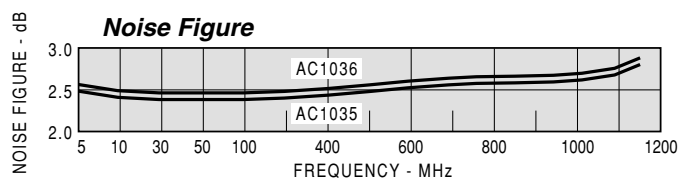
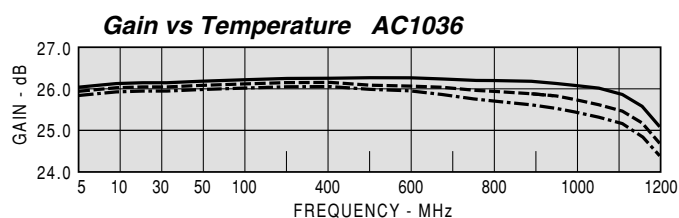
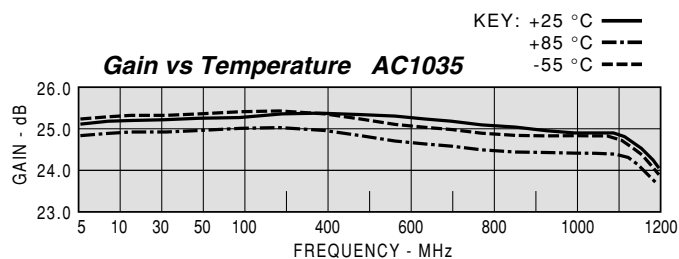
¹Thermal resistance is based on total power dissipation.

AC1035/AC1036



DIMENSIONS ARE IN INCHES (MILLIMETERS)

TYPICAL PERFORMANCE



TYPICAL AUTOMATIC TEST DATA

Model: AC1035			Vcc=+5V		Icc=17.92
FREQ	SWR	SWR	GAIN	DELAY	REV/ISO
MHZ	IN	OUT	DB	NSEC	DB
10	1.67	1.04	25.4		-38.8
20	1.65	1.07	25.4		-38.2
50	1.66	1.08	25.5	1.310	-37.9
100	1.65	1.07	25.4	0.898	-38.1
200	1.69	1.08	25.4	0.822	-37.8
300	1.74	1.12	25.4	0.828	-37.6
400	1.77	1.18	25.5	0.837	-38.0
500	1.73	1.25	25.5	0.854	-37.5
600	1.67	1.28	25.4	0.876	-37.0
700	1.59	1.30	25.3	0.861	-35.9
800	1.50	1.24	25.3	0.897	-35.6
900	1.46	1.12	25.4	0.954	-35.1
1000	1.65	1.09	25.4	1.060	-34.2
1100	2.65	1.50	25.0	1.251	-33.0

LINEAR S-PARAMETERS									
Model: AC1035		Vcc=+5V					Icc=17.82		
FREQ.	S11			S21		S12		S22	
MHz	MAG	ANG	MAG	ANG	MAG	ANG	MAG	ANG	
10	0.25	-8.9	18.52	12.6	0.011	13.0	0.02	-10.3	
20	0.25	-7.2	18.63	2.3	0.012	11.0	0.03	6.2	
50	0.25	-11.9	18.73	-11.4	0.013	2.0	0.04	4.6	
100	0.25	-20.4	18.57	-26.9	0.012	-1.0	0.04	6.8	
200	0.26	-39.7	18.57	-55.1	0.013	-10.0	0.04	31.9	
300	0.27	-57.1	18.71	-83.2	0.013	-13.0	0.06	42.3	
400	0.28	-74.5	18.91	-112.1	0.013	-16.0	0.08	34.1	
500	0.27	-91.5	18.77	-141.4	0.013	-29.0	0.11	21.4	
600	0.25	-110.3	18.63	-170.9	0.014	-34.0	0.12	5.4	
700	0.23	-132.4	18.49	158.9	0.016	-45.0	0.13	-15.4	
800	0.20	-162.6	18.44	128.1	0.017	-52.0	0.11	-36.9	
900	0.19	151.4	18.55	95.1	0.018	-71.0	0.06	-64.1	
1000	0.25	84.9	18.70	58.4	0.019	-87.0	0.04	119.2	
1100	0.45	26.8	17.77	15.0	0.022	-114.0	0.20	71.4	
1200	0.70	-20.7	13.91	-32.2	0.019	-143.0	0.35	30.0	
1300	0.85	-54.9	8.98	-73.1	0.018	-168.0	0.43	-4.6	

Model: AC1036			Vcc=+5V		Icc=34.08
FREQ	SWR	SWR	GAIN	DELAY	REV/ISO
MHZ	IN	OUT	DB	NSEC	DB
10	1.34	1.06	25.8		-37.4
20	1.34	1.04	25.9		-37.8
50	1.36	1.04	26.0	1.240	-36.8
100	1.36	1.03	25.9	0.834	-37.0
200	1.38	1.05	26.0	0.743	-36.8
300	1.40	1.08	26.0	0.742	-36.7
400	1.41	1.12	26.2	0.755	-36.8
500	1.39	1.16	26.2	0.784	-36.2
600	1.36	1.19	26.2	0.793	-36.2
700	1.30	1.23	26.2	0.794	-35.3
800	1.22	1.23	26.2	0.826	-35.3
900	1.16	1.23	26.2	0.852	-35.4
1000	1.25	1.30	26.2	0.904	-34.0
1100	1.70	1.47	26.2	1.008	-33.0

LINEAR S-PARAMETERS								
Model: AC1036		Vcc=+5V				Icc=34.08		
FREQ.	S11		S21		S12		S22	
MHz	MAG	ANG	MAG	ANG	MAG	ANG	MAG	ANG
10	0.14	-8.4	19.43	13.6	0.013	19.0	0.03	139.4
20	0.15	-5.6	19.68	3.5	0.013	8.0	0.02	94.1
50	0.15	-9.6	19.88	-9.9	0.014	3.0	0.02	51.9
100	0.15	-19.5	19.77	-24.8	0.014	-3.0	0.02	43.1
200	0.16	-38.4	19.87	-51.6	0.014	-12.0	0.03	52.3
300	0.17	-54.0	20.02	-78.4	0.015	-16.0	0.04	49.6
400	0.17	-68.8	20.41	-105.5	0.014	-18.0	0.06	31.2
500	0.16	-83.4	20.52	-133.1	0.015	-34.0	0.07	11.2
600	0.15	-97.3	20.50	-162.3	0.015	-42.0	0.09	-13.8
700	0.13	-116.5	20.52	169.0	0.017	-54.0	0.10	-43.4
800	0.10	-144.6	20.38	139.3	0.017	-60.0	0.10	-77.6
900	0.07	161.0	20.43	108.8	0.017	-72.0	0.10	-120.7
1000	0.11	81.6	20.51	76.2	0.020	-89.0	0.13	-169.9
1100	0.26	31.4	20.41	39.8	0.022	-111.0	0.19	135.0
1200	0.49	-8.3	18.74	-1.5	0.022	-134.0	0.28	84.3
1300	0.73	-43.4	14.72	-44.6	0.021	-159.0	0.34	35.3