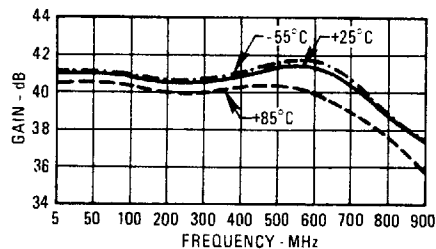
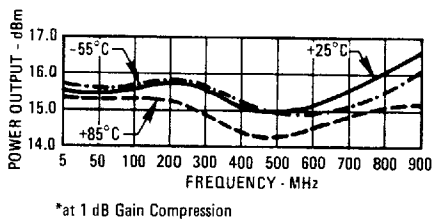


Typical Performance at 25°C

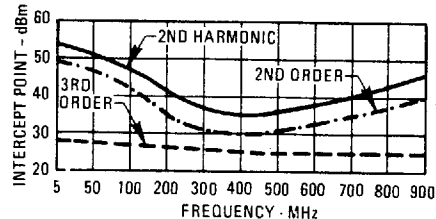
Gain



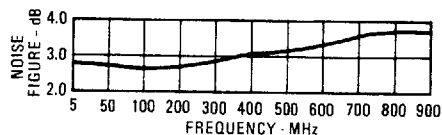
Power Output*



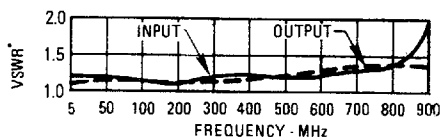
Intercept Point



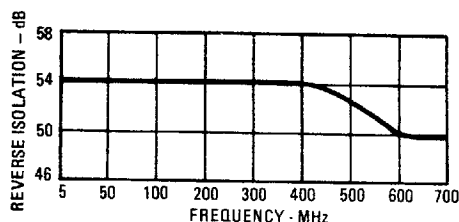
Noise Figure



VSWR



Reverse Isolation



Typical Automatic Test Data

V_{CC} = 15.0 V

Frequency MHz	VSWR IN	VSWR OUT	GAIN DB
1.0	1.1	2.3	36.8
2.0	1.2	1.4	40.0
5.0	1.2	1.2	40.4
10.0	1.2	1.1	40.4
50.0	1.1	1.1	40.2
100.0	1.1	1.0	39.9
200.0	1.1	1.1	39.7
300.0	1.2	1.1	39.7
400.0	1.2	1.2	40.1
500.0	1.3	1.3	39.9
600.0	1.3	1.3	38.9
700.0	1.5	1.2	37.1

V_{CC} = 12.0 V

Frequency MHz	VSWR IN	VSWR OUT	GAIN DB
1.0	1.1	2.3	35.9
2.0	1.2	1.4	39.2
5.0	1.1	1.1	39.6
10.0	1.1	1.1	39.6
50.0	1.1	1.1	39.5
100.0	1.0	1.0	39.2
200.0	1.1	1.1	38.9
300.0	1.2	1.1	38.9
400.0	1.2	1.2	39.2
500.0	1.3	1.3	39.0
600.0	1.3	1.3	38.0
700.0	1.4	1.2	36.3

Linear S-Parameters

Frequency MHz	S11		S21		S12		S22	
	MAG	ANG	MAG	ANG	MAG	ANG	MAG	ANG
1.0	.068	-150	68.912	-137	.001	12	.391	-142
2.0	.094	-115	99.825	-152	.002	23	.161	153
5.0	.086	-158	104.174	-172	.002	22	.074	150
10.0	.085	-174	140.343	-180	.002	8	.059	149
50.0	.061	156	102.520	157	.002	6	.033	116
100.0	.039	146	98.975	134	.002	12	.018	67
200.0	.048	-156	96.108	91	.002	3	.025	-62
300.0	.086	-176	96.697	48	.003	12	.054	-118
400.0	.111	143	100.585	1	.002	12	.093	-158
500.0	.134	99	98.877	-49	.003	3	.121	159
600.0	.149	46	88.322	-103	.003	-10	.117	112
700.0	.184	2	71.821	-153	.003	-18	.082	63

Linear S-Parameters

Frequency MHz	S11		S21		S12		S22	
	MAG	ANG	MAG	ANG	MAG	ANG	MAG	ANG
1.0	.054	-169	62.544	-138	.001	-12	.391	-142
2.0	.083	-103	91.165	-152	.002	35	.158	151
5.0	.067	-150	95.244	-172	.002	13	.068	147
10.0	.058	-170	95.487	-180	.002	8	.053	146
50.0	.042	159	93.975	157	.002	9	.027	113
100.0	.024	146	90.975	134	.002	8	.012	49
200.0	.055	-145	88.290	90	.002	16	.030	-89
300.0	.092	-167	88.548	46	.002	9	.063	-126
400.0	.106	152	91.451	-1	.003	14	.105	-161
500.0	.118	106	89.243	-52	.003	10	.132	160
600.0	.124	59	79.754	-105	.003	-6	.127	119
700.0	.163	14	65.491	-155	.003	-18	.086	78

V_{CC} = 5.0 V

Frequency MHz	VSWR IN	VSWR OUT	GAIN DB
1.0	1.2	2.3	30.6
2.0	1.3	1.3	34.3
5.0	1.2	1.1	34.7
10.0	1.2	1.1	34.8
50.0	1.2	1.0	34.7
100.0	1.2	1.1	34.5
200.0	1.3	1.1	34.1
300.0	1.3	1.2	33.8
400.0	1.3	1.3	33.6
500.0	1.3	1.3	32.9
600.0	1.4	1.2	31.9
700.0	1.5	1.2	30.6

Linear S-Parameters

Frequency MHz	S11		S21		S12		S22	
	MAG	ANG	MAG	ANG	MAG	ANG	MAG	ANG
1.0	.079	-6	33.943	-143	.002	-5	.395	-141
2.0	.126	-32	51.929	-154	.002	36	.148	137
5.0	.079	-24	54.428	-172	.003	12	.045	109
10.0	.073	-17	54.688	-180	.003	8	.027	94
50.0	.073	-19	54.315	155	.003	10	.020	7
100.0	.089	-43	52.817	130	.003	4	.031	-47
200.0	.116	-91	50.805	81	.003	5	.058	-100
300.0	.134	-130	48.998	33	.003	4	.085	-135
400.0	.138	-162	47.597	-16	.003	-4	.112	-166
500.0	.140	169	43.906	-66	.004	-4	.121	164
600.0	.149	130	39.250	-118	.005	-18	.108	139
700.0	.188	79	34.002	-168	.005	-35	.085	130

Thermal Data: V_{CC} = 15 Vdc

Thermal Resistance θ_{jC} 45°C/W
 Transistor Power Dissipation P_d 0.371 W
 Junction Temperature Rise Above Case T_{jC} ... 17°C