

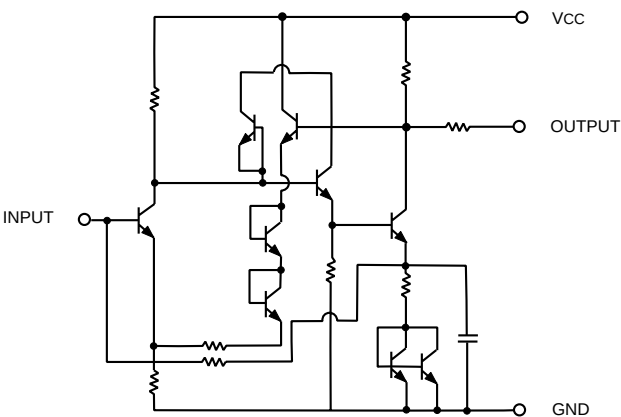
ABSOLUTE MAXIMUM RATINGS¹ (T_A = 25°C)

SYMBOLS	PARAMETERS	UNITS	RATINGS
V _{CC}	Supply Voltage	V	6
P _{IN}	Input Power	dBm	+10
P _T	Total Power Dissipation ²	mW	200
T _{OP}	Operating Temperature	°C	-40 to +85
T _{STG}	Storage Temperature	°C	-55 to +150

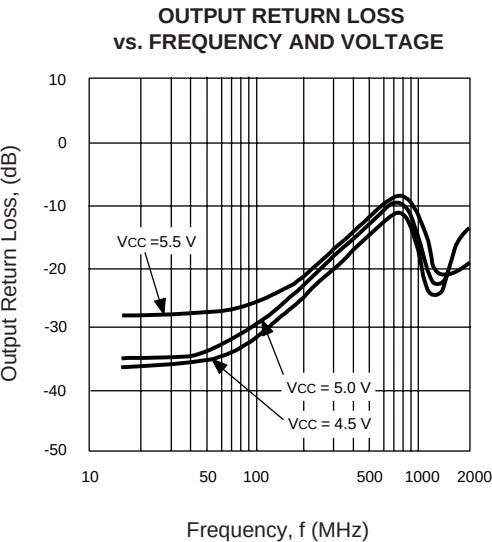
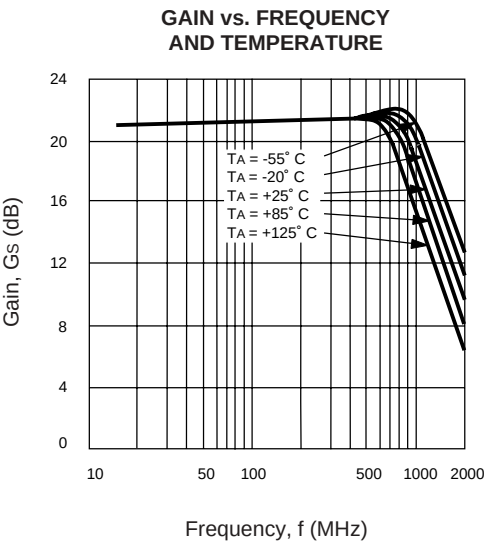
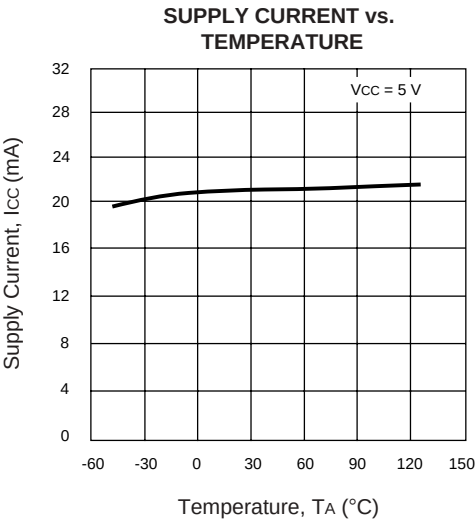
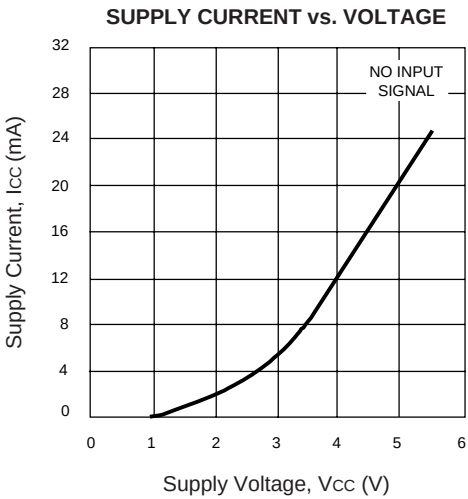
Notes:

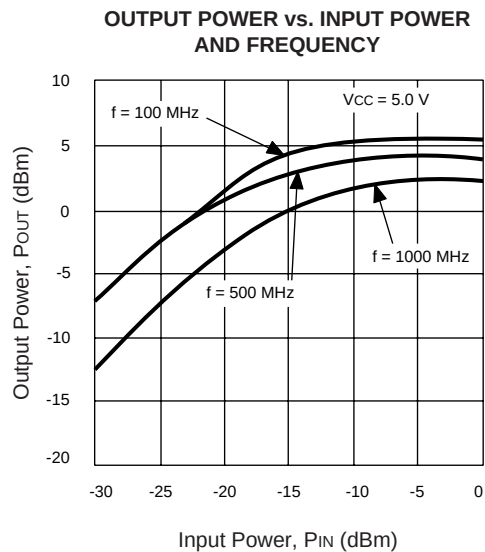
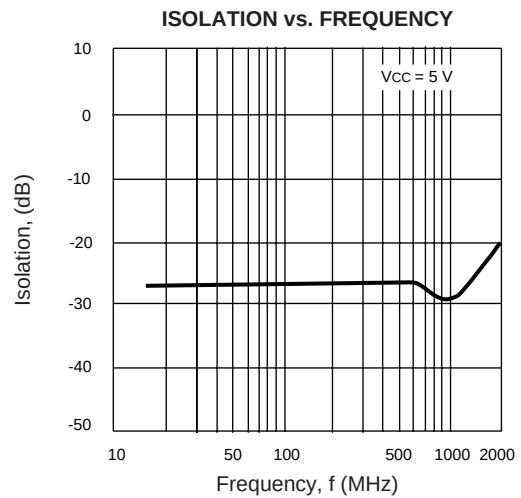
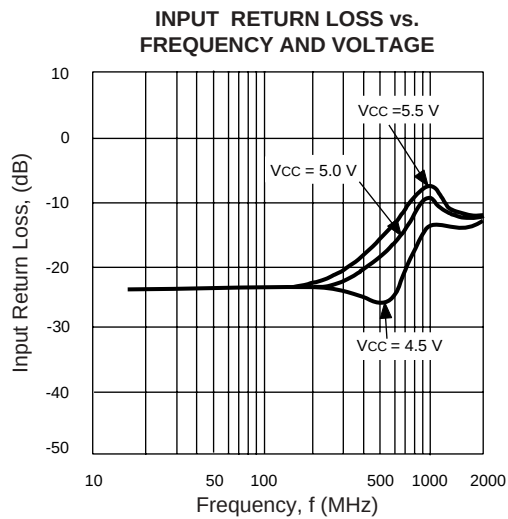
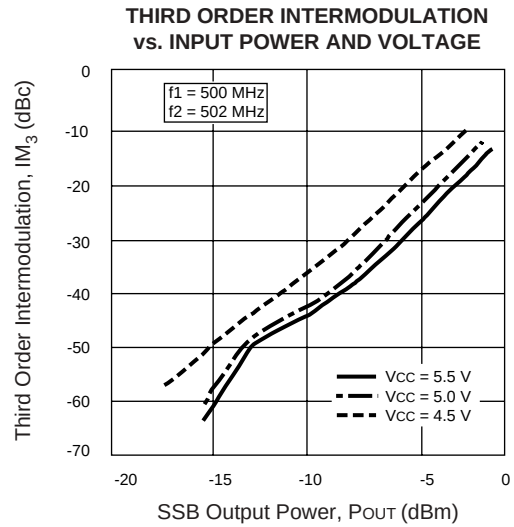
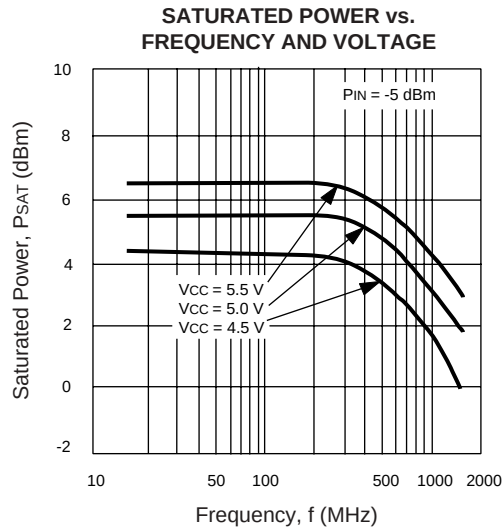
1. Operation in excess of any one of these parameters may result in permanent damage.
2. At T_A = +85°C.

EQUIVALENT CIRCUIT



TYPICAL PERFORMANCE CURVES (T_A = 25°C)



TYPICAL PERFORMANCE CURVES ($T_A = 25^\circ\text{C}$)

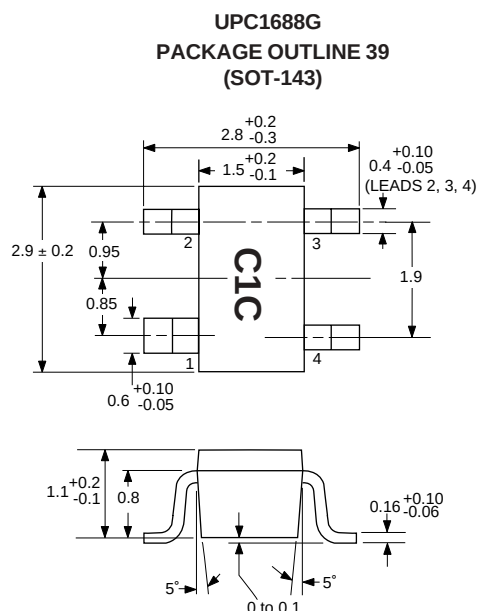
TYPICAL SCATTERING PARAMETERS (T_A = 25°C)

UPC1688G:

V_{CC} = 5.0 V, I_{CC} = 19 mA

FREQUENCY GHz	S ₁₁		S ₂₁		S ₁₂		S ₂₂		k	S ₂₁ dB
	MAG	ANG	MAG	ANG	MAG	ANG	MAG	ANG		
0.10	0.102	-85.7	11.040	-13.7	0.042	3.2	0.073	-132.3	1.30	20.9
0.20	0.161	-102.3	11.632	-31.0	0.043	-0.3	0.089	-148.8	1.23	21.3
0.30	0.237	-110.4	12.054	-48.4	0.044	-1.1	0.100	-156.0	1.17	21.6
0.40	0.292	-116.9	12.328	-62.8	0.046	-1.0	0.111	174.0	1.10	21.8
0.50	0.344	-123.9	12.515	-80.8	0.048	8.4	0.136	108.1	1.00	21.9
0.60	0.353	-135.4	12.578	-102.2	0.050	2.2	0.153	47.3	0.94	22.0
0.70	0.348	-152.8	12.466	-124.5	0.053	-1.7	0.172	-16.6	0.93	21.9
0.80	0.301	-165.8	11.899	-148.8	0.055	-7.6	0.192	-37.5	0.96	21.5
0.90	0.217	-175.0	10.564	-172.3	0.057	-11.6	0.222	-60.5	1.02	20.5
1.00	0.113	-169.8	8.983	166.8	0.056	-15.9	0.270	-75.8	1.14	19.1
1.10	0.081	-116.2	7.466	147.5	0.056	-18.3	0.318	-90.6	1.25	17.5
1.20	0.139	-87.2	6.170	130.7	0.053	-19.6	0.350	-102.4	1.45	15.8
1.30	0.219	-82.3	5.177	117.2	0.053	-19.6	0.374	-112.9	1.60	14.3
1.40	0.278	-83.6	4.330	104.5	0.053	-23.2	0.385	-121.6	1.80	12.7
1.50	0.327	-86.8	3.684	93.2	0.054	-24.4	0.390	-129.1	1.97	11.3
1.60	0.366	-89.6	3.161	82.5	0.055	-24.2	0.387	-135.1	2.17	10.0
1.70	0.399	-91.6	2.742	73.3	0.055	-27.2	0.380	-141.0	2.44	8.8
1.80	0.436	-94.8	2.423	64.1	0.056	-28.3	0.371	-145.9	2.62	7.7
1.90	0.452	-96.7	2.178	56.3	0.057	-29.0	0.352	-149.8	2.86	6.8
2.00	0.465	-99.0	1.991	47.7	0.058	-30.4	0.339	-153.0	3.06	6.0
2.10	0.486	-99.3	1.814	39.4	0.059	-28.4	0.319	-155.3	3.27	5.2

OUTLINE DIMENSIONS (Units in mm)



- PIN
CONFIGURATIONS
1. GND
 2. OUTPUT
 3. V_{CC}
 4. INPUT

Note:

All dimensions are typical unless otherwise specified.

Life Support Applications

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