

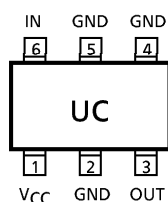
TA4008F

1.6GHz BAND BUFFER AMPLIFIER APPLICATION

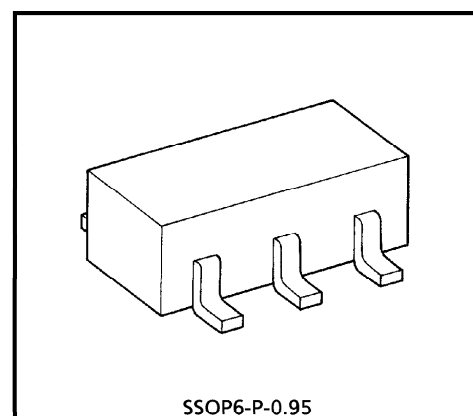
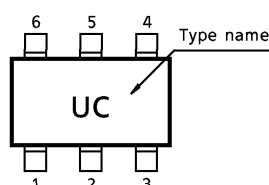
FEATURES

- Low current : $I_{CC} = 9\text{mA}$ (Typ.)
- Recommended operating voltage : $V_{CC} = 2.7 \sim 3.3\text{V}$

PIN ASSIGNMENT (TOP VIEW)



MARKING



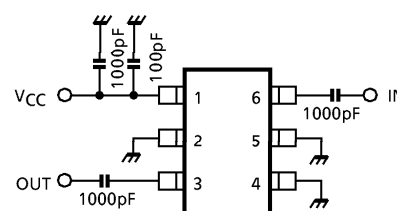
Weight : 0.014g (Typ.)

MAXIMUM RATING ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	6	V
Total Power Dissipation	P_D (*)	300	mW
Operating Temperature	T_{opr}	$-40 \sim 85$	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim 125$	$^\circ\text{C}$

(*) When mounted on the glass epoxy board of $2.5\text{cm}^2 \times 1.6\text{t}$.

TEST CIRCUIT 1

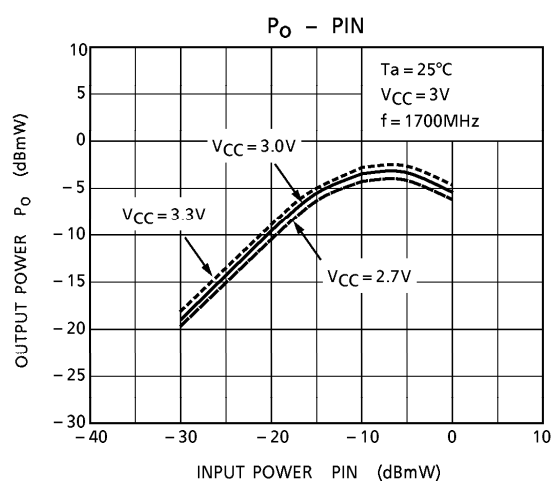
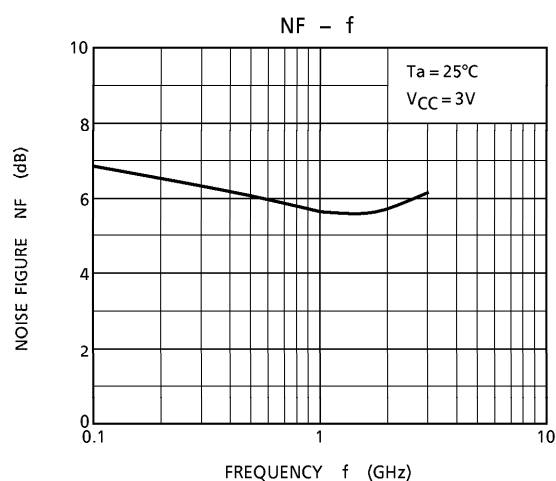
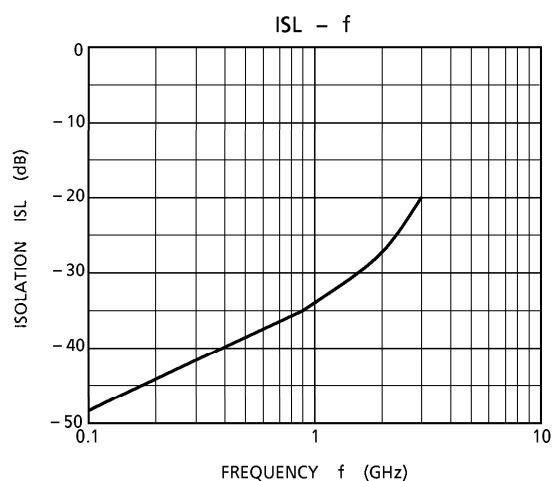
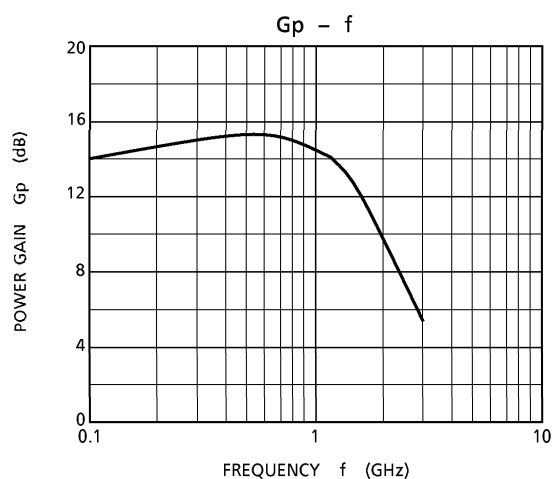
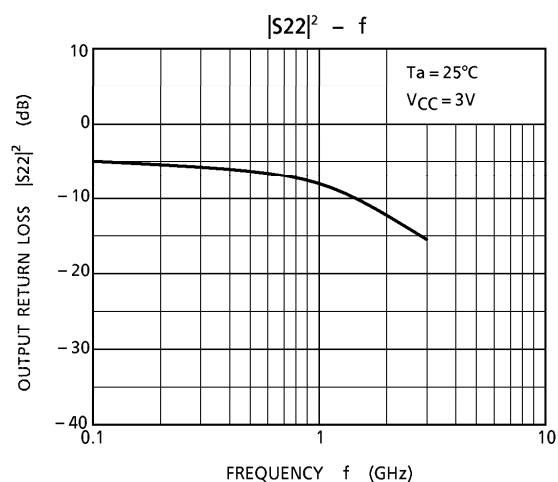
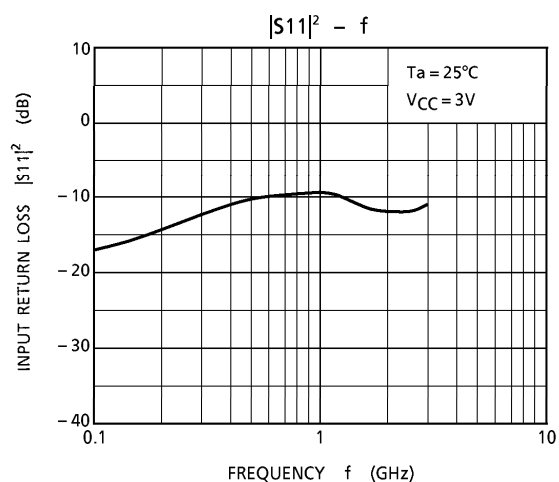


ELECTRICAL CHARACTERISTICS ($V_{CC} = 3\text{V}$, $T_a = 25^\circ\text{C}$, $Z_g = Z_l = 50\Omega$)

CHARACTERISTIC	SYMBOL	TEST CIRCUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Circuit Current	I_{CC}	—	Non carrier	—	9	12	mA
Frequency Range	frange	—	—	1640	—	1700	MHz
Power Gain	G_p	1	$f = 1640 \sim 1700\text{MHz}$	8	11	14	dB
Noise Figure	NF	1		—	6	9	dB
Isolation	ISL	1		25	30	—	dB
Input VSWR	VSWR _{in}	1		—	1.8	2.5	—
Output VSWR	VSWR _{out}	1		—	1.9	2.5	—
Maximum Output Power	P_o	1	$f = 1640 \sim 1700\text{MHz}$, $P_{in} = -8\text{dBmW}$	—	-3	—	dBmW

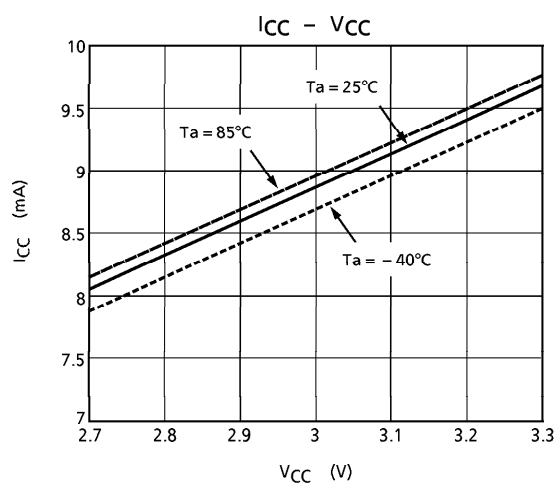
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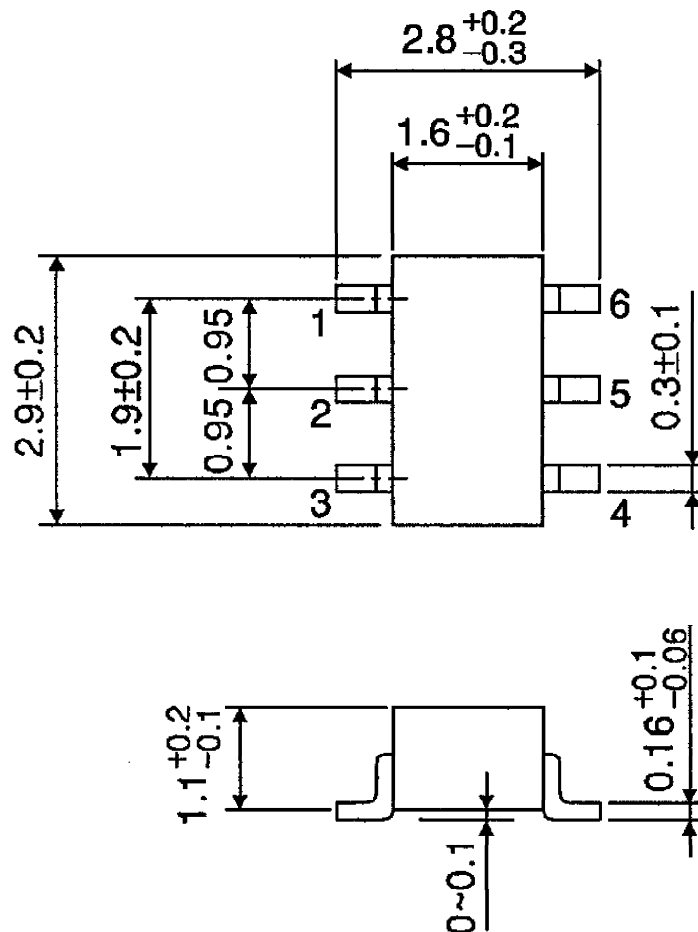
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OUTLINE DRAWING
SSOP6-P-0.95

Unit : mm



Weight : 0.014g (Typ.)