

## UNDER DEVELOPMENT

## Audio Power Amplifier IC TK10569M

### DESCRIPTION

The TK10569M is audio amplifier capable of low voltage operation for dynamic-speaker driver. The coupling capacitors to the speaker are not required, because of differential output configuration. The differential gain is set by two external resistors. Current consumption can be decreased by the stand-by function.

### FEATURES

- Low Voltage Operation Available.  $V_{cc} = 1.8 \sim 6.0V$
- Low Current Consumption.  $I_{cc} = 10mA$  ( $V_{cc} = 3.3V, R_L = \infty$ )
- Stand-by Function Available.  $I_{ccs} = 20\mu A$  ( $V_{cc} = 3.3V$ )
- Maxim Output Power.  $480mW$  ( $V_{cc} = 3.3V, R_L = 8\Omega$ )
- Muting Function Available.
- Differential Gain is set by two external resistance.

### APPLICATIONS

- Notebook Computers, Recivers.
- Battery Powered Small Portable Equipments.

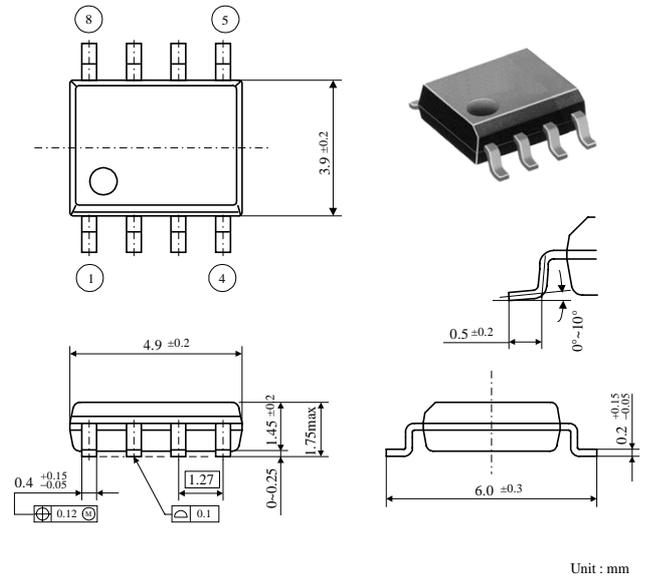
### ELECTRICAL CHARACTERISTICS

Conditions :  $V_{cc} = 3.3V, f_{in} = 1kHz, R_L = 8\Omega$

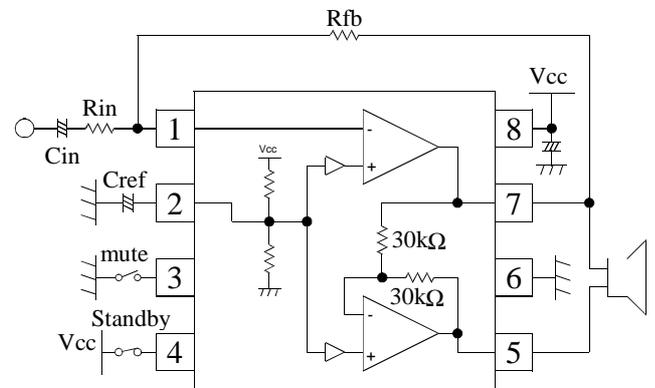
Parameter	Symbol	Value (Typ)	Units
Operation Voltage Range	$V_{cc}$	1.8 ~ 6.0	V
Supply Current	$I_{cc}$	10.0 ( $R_L = \infty$ )	mA
Maximum Output Power	$P_{out}$	480 ( $THD \leq 10\%$ )	mW
Total Harmonic Distortion 1	THD1	0.5 ( $R_L = \infty$ )	%
Total Harmonic Distortion 2	THD2	1.0 ( $R_L = 8\Omega$ )	%
Stand-by Current	$I_{ccs}$	20	$\mu A$

### PACKAGE OUTLINE

■ SOP-8



### BLOCK DIAGRAM



⚠ Note that the contents are subject to change or discontinuation without notice. When placing orders, please confirm specifications and delivery condition in writing.