

NEW

CMOS Operational Amplifier TK62022F

DESCRIPTION

The TK62022F is dual CMOS operational amplifier. It operated on a single supply 2.7V~5.5V, Rail-to-Rail input and output.

We achieved the class AB operational amplifier which securing the gain bandwidth product of 5MHz.

The TK62022F is suitable for the battery powered application to a small portable equipment.

FEATURES

- Rail-to-Rail Input and Output : $V_{SS}+0.1V \sim V_{DD}-0.1V$
- Supply Current : 125 μA (per amp)
- High Gain Bandwidth : 5 MHz
- High Output Short Circuit Current : 15 mA
(at $V_{DD}=4.5V$, $V_{SS}=0V$)
- Low Crossover Distortion
- Single Supply Operation : 2.7V ~ 5.5V

APPLICATIONS

- Battery Powered Small Portable Equipment
Cellular phone, Portable Audio System, DSC etc.

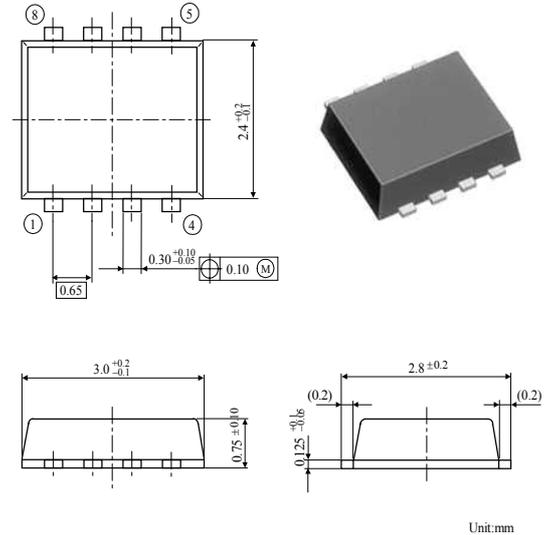
ELECTRICAL CHARACTERISTICS

Condition : $V_{DD}=4.5V$, $V_{SS}=0V$

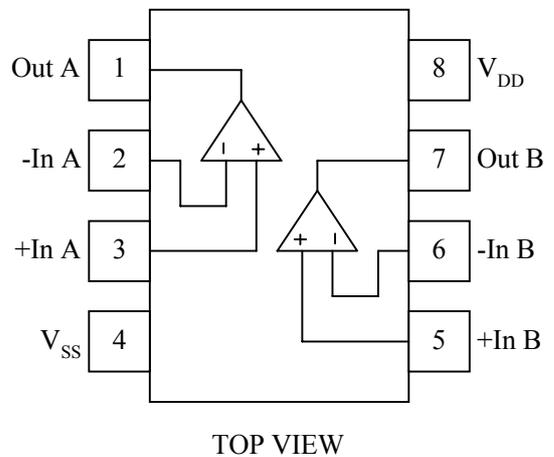
Parameter	Symbol	Value (TYP)	Unit
Operating Voltage Range	V_{OP}	2.7 ~ 5.5	V
Supply Current	I_{SS}	250 μ	A
Maximum Output Voltage	High	V_{OH}	4.4 V
	Low	V_{OL}	0.1 V
Output Short Circuit Current	Sink	$I_{OS(-)}$	15 m A
	Source	$I_{OS(+)}$	15 m A
Open Loop Voltage Gain	A_{VO}	70	dB
Common Mode Rejection Ratio	CMRR	70	dB
Supply Voltage Rejection Ratio	SVRR	65	dB
Gain Bandwidth	GBW	5 M	Hz
Srew Rate	SR	4.0	V/ μ sec
Operating Temp. Range	T_{OP}	-40 ~ +85	$^{\circ}C$

PACKAGE OUTLINE

- SON-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.