MEETING YOUR NEEDS
TOKO, Inc.

Product Information

NEW

CMOS Operational Amplifier
TK62002F

DESCRIPTION

The TK62002F is dual CMOS operational amplifier.
It operated on a single supply 1.8V~5.5V, Rail-to-Rail input and output.
We achieved the class AB operational amplifier which operated by extremely low supply currents (4.0 µA per amp) securing the gain bandwidth product of 200kHz.
The TK62002F is suitable for the battery powered application to a small portable equipment.

FEATURES

- Rail-to-Rail Input and Output : V_{SS}+0.1V~V_{DD}-0.1V
- Low Supply Current : 4.0µA (per amp)
- Gain Bandwidth : 200 kHz
- High Output Short Circuit Current : 9 mA
  (at V_{DD}=3.0V , V_{SS}=0V)
- Single Supply Operation : 1.8V ~ 5.5V

APPLICATIONS

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

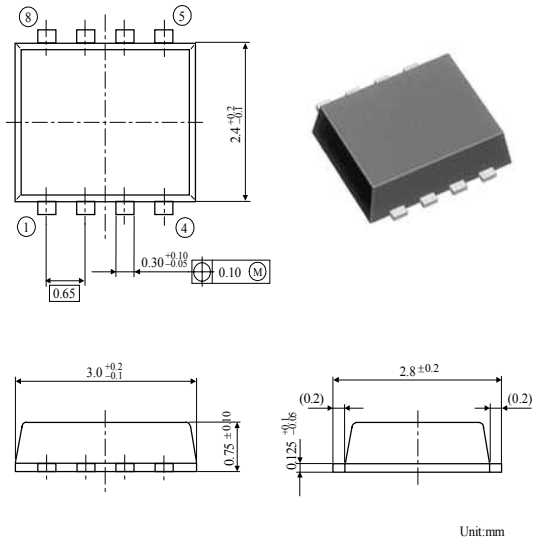
ELECTRICAL CHARACTERISTICS

Condition : V_{DD}=3.0V , V_{SS}=0V

Parameter		Symbol	Value (TYP)	Unit
Operating Voltage Range		V_{OP}	1.8 ~ 5.5	V
Supply Current		I_{SS}	8.0 µ	A
Maximum Output Voltage	High	V_{OH}	2.9	V
	Low	V_{OL}	0.1	V
Output Short Circuit Current	Sink	$I_{OS(-)}$	9 m	A
	Source	$I_{OS(+)}$	9 m	A
Open Loop Voltage Gain		A_{VO}	90	dB
Common Mode Rejection Ratio		CMRR	70	dB
Supply Voltage Rejection Ratio		SVRR	65	dB
Gain Bandwidth		GBW	200 k	Hz
Srew Rate		SR	0.05	V/µ sec
Operating Temp. Range		T_{OP}	-40 ~ +85	°C

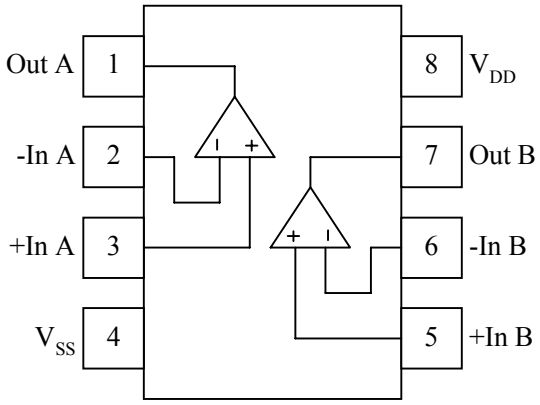
PACKAGE OUTLINE

■ SON-8



Unit:mm

BLOCK DIAGRAM



TOP VIEW