

VOLTAGE CONVERTER FOR MMIC**DESCRIPTION**

The M62261FP is a C-MOS semiconductor circuit for driving MMIC, by connecting to the external capacitance, it can generate 2-times of inverting input voltage.

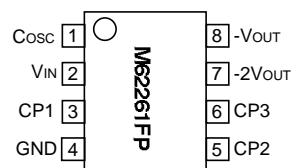
With resident charge-pump type 2-times inverting input voltage circuit, -V_{out} and -2V_{out} can perform 2 kinds of negative source system.

FEATURES

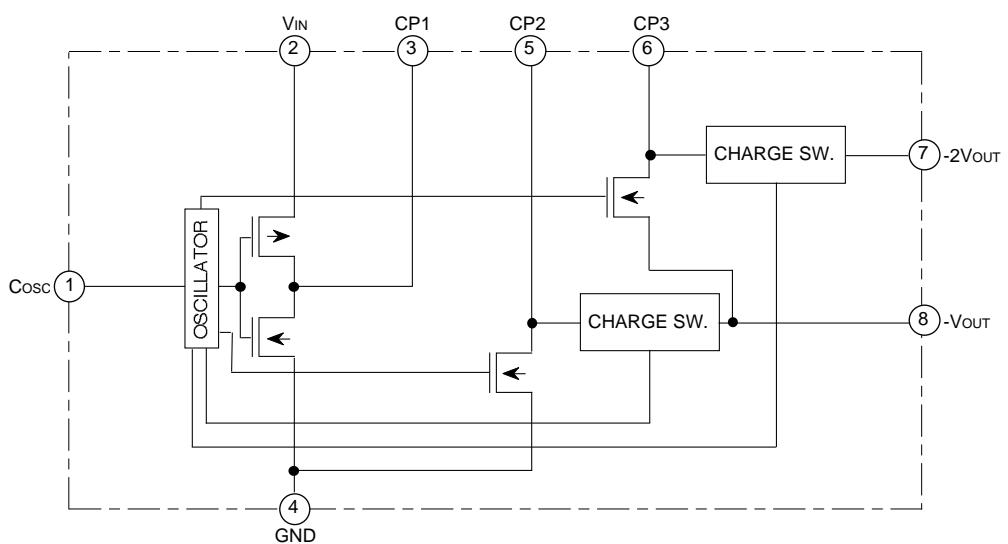
- By connecting to external capacitance, it can generate 2-times of inverting input voltage.
- Capability of output current 10mA(Min.)
- Low voltage operation is possible V_{IN}=3V(Typ.)
- Small size 8 pin package.

APPLICATION

MMIC for cordless telephone

PIN CONFIGURATION (TOP VIEW)

Outline 8P2S-A

BLOCK DIAGRAM

VOLTAGE CONVERTER FOR MMIC**EXPLANATION OF TERMINALS**

Pin No.	Symbol	Function
①	Cosc	Connect pin for capacitance of oscillator circuit
②	VIN	Input voltage
③	CP1	Connect pin 1 for capacitance of charge-pump
④	GND	GND pin
⑤	CP2	Connect pin 2 for capacitance of charge-pump
⑥	CP3	Connect pin 3 for capacitance of charge-pump
⑦	-2VOUT	Output pin of 2-times inverting input voltage
⑧	-VOUT	Output pin of inverting input voltage

ABSOLUTE MAXIMUM RATINGS (Ta=25°C, unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
VIN	Supply voltage		6	V
Pd	Power dissipation	Ta=25°C	440	mW
Topr	Operating temperature		-20 to +75	°C
Tstg	Storage temperature		-40 to +125	°C

ELECTRICAL CHARACTERISTICS (VIN=3V, Ta=25°C, Cosc=220pF, unless otherwise noted)

Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
Icc	Dissipation current			350	900	µA
VIN	Range of source voltage		2.7	5.5		V
Ro1	Output resistor	-VOUT output pin (with load at -VOUT pin only)		40	80	
Ro2		-2VOUT output pin (with load at -2VOUT pin only)		120	240	
VEF	Efficiency of voltage convert	RL=	95	99.8		%
PEF1	Efficiency of power convert	-VOUT output, IL1=5mA		90		%
PEF2		-2VOUT output, IL2=5mA		90		%
fosc	Oscillating frequency	Cosc=220pF	2	6	10	kHz

APPLICATION EXAMPLE