

Feature

- Wide Input Voltage Range
- Over Current Protection
- Output Remote Control
- Low Input Voltage Protection
- Soft-start (Can be set as desired)
- Added adjustment pin for output voltage
- Few external electric parts
- Thermal Shutdown
- Short-circuit Protection
- Oscillation Frequency 500kHz
- Small size and High Efficiency

Application

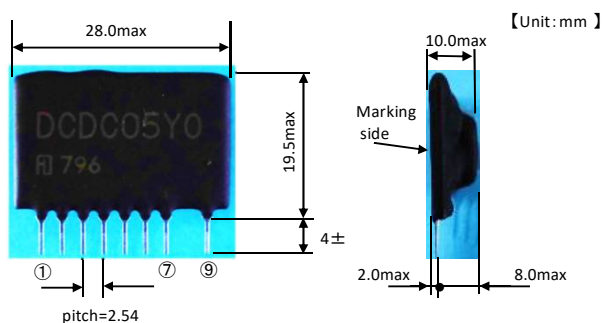
- Industrial equipment, OA, Measurement equipment
- Vending machine, Security, Cash register
- Parking meter
- Secondary power supply, Adapter
- Power supply for Micro-computer used in home appliance
- Power supply for LED and Relay

Specification

Item	Unit	DCDC03	DCDC05	DCDC12
Input Voltage Range	V	7 ~ 30	7 ~ 30	15 ~ 30
Output Voltage	V	3.3	5	12
Maximum Output Current(Note)	A	2	2	0.8
Efficiency	%	90% typ		
Over Current Protection	A	3.2A typ		
Output Control	—	VCTL pin No.4 ⇒ Low: valid High or open: invalid		
Operating Temperature	°C	-25 ~ 85		
Storage Temperature	°C	-40 ~ 100		

Output voltage set by internal resistor, so please make contact with us for another output voltage except above one.
(Note) Output current have derating.

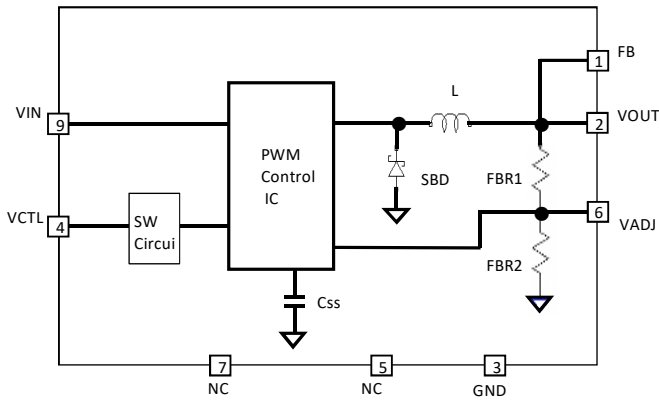
Dimension



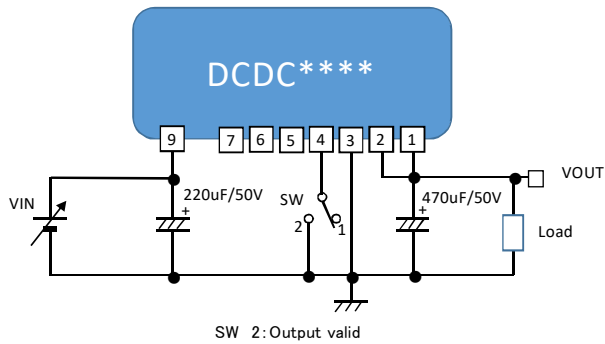
Pin Assignment

Pin number	Pin name	Function
1	FB	Output Voltage Sense
2	VOUT	Output Voltage
3	GND	Ground
4	VCTL	Output Control
5	NC	No connection
6	VADJ	Output Voltage Adjustment
7	NC	No connection
8	—	—
9	VIN	Input Voltage

Block Diagram



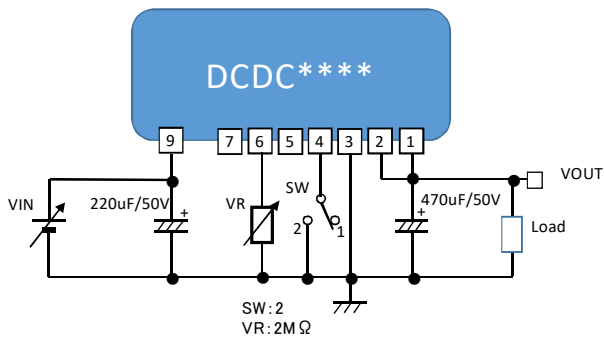
Typical Application Circuit



- ※Please use low ESR Capacitor for input and output aluminum electrolytic capacitors.
- ※No.5 and 7 are no connection.
- ※No.6 is for output adjustment pin.You can use open normally.

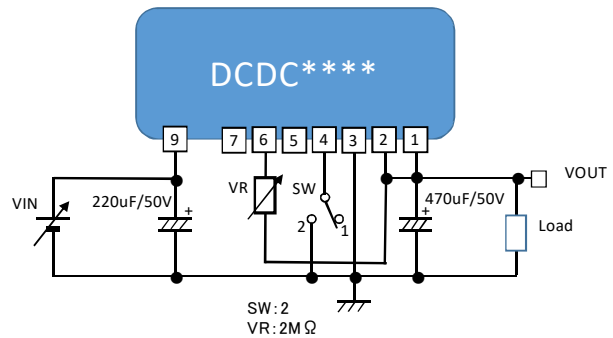
Typical Output Adjustment

【Adjust upper voltage】



Adjust the variable resistor 2MΩ connected between No.6 and Ground pin.

【Adjust lower voltage】



Adjust the variable resistor 2MΩ connected between No.2 and No.6.