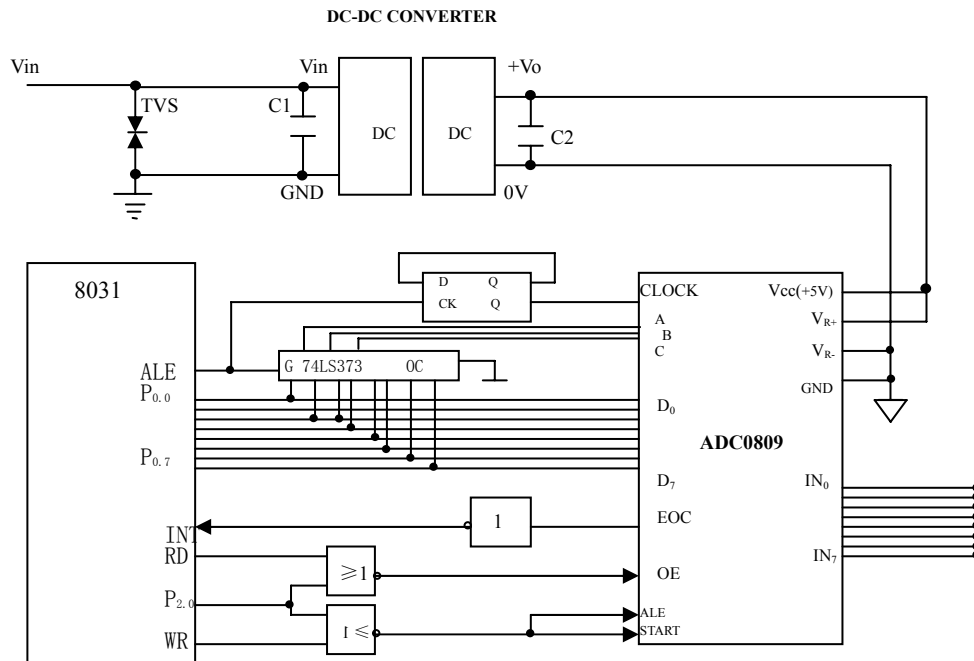


# SINGLE POWER A/D CONVERTER APPLICATION



## FEATURES

- a. In this circuit, we take for example where DC-DC module is used as power source of ADC0809 and MONOLITHIC PROCESSOR 8031 circuit. ADC0809 use +5V input power, and requires accurate, low noise and low ripple source.
- b. The use of DC-DC module and photounits restrains surrounding EMI, eliminates ground loop, and protects the circuit system free interference from outside circuits. The modules provides a stable, precision, low noise and low ripple power source as well.

## DC-DC POWER MODULE SELECTION GUIDE

SYSTEM POWER SUPPLY	HIGH PRECISION APPLICATION					
	1000VDC ISOLATION		3000VDC ISOLATION		LOW LOSS APPLICATION	
	PART NUMBER	PACKAGE	PART NUMBER	PACKAGE	PART NUMBER	PACKAGE
5V	IB0505LS-W75 IB0505LD-W75 IB0505T-W75	SIP DIP SMD	IF0505S-W75 IF0505D-W75	SIP DIP	IB0505LS-W25 IB0505LD-W25	SIP DIP
12V	IB1205LS-W75 IB1205LD-W75 IB1205T-W75	SIP DIP SMD	IF1205S-W75 IF1205D-W75	SIP DIP	IB1205LS-W25 IB1205LD-W25	SIP DIP
24V	IB2405LS-W75 IB2405LD-W75 IB2405-W75	SIP DIP SMD	IF2405S-W75 IF2405D-W75	SIP DIP	IB2405LS-W25 IB2405LD-W25	SIP DIP

### NOTES:

1. IBxxxxx-W75 is fixed input, 1000VDC isolation, regulated single output series.
2. IFxxxxx-W75 is fixed input, 3000VDC high isolation, regulated single output series.

### Notes:

- a. The application above is made while assuming operation voltage of ADC0809 is +5V. For +9V +12V or +15V

applications please choose Mornsun's corresponding products.

- b. The capacitor which attached to output of DC-DC modules could not exceed 10uF, otherwise the modules may have problem while starting. **If the output voltage is  $\pm 12V$  or  $\pm 15V$ , the capacitor could not exceed 2.2uF.**
- c. For long term reliability concern, please do not use the modules at less than 10% rated power. Please select lower power modules for low power application, as for example 0.25W modules.
- d. For special requirements please contact us:

Tel: (978)567-9610 or Fax: (978)567-9601

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