



• CC02 SERIES SINGLE AND DUAL OUTPUT

• 2 WATTS ISOLATED DC/DC CONVERTERS

- ◆ EFFICIENCY UP TO 82%
- ◆ MINIATURE PACKAGE
- ◆ I/O ISOLATION 3000VDC
- ◆ SMT TECHNOLOGY
- ◆ LOW COST
- ◆ MTBF>1,560,000 hrs



ELECTRICAL SPECIFICATIONS :
At Nominal Input , Full Load and 25°C

Model Selection Chart :

Model Number	Input Voltage	Output Voltage	Output Current	Efficiency	
	Vdc	Vdc	mA	@Max.Load %(Typ.)	
CC02-05S3V3	05 (4.5~5.5)	3.3	600	73	
CC02-05S05V		5	400	76	
CC02-05S12V		12	165	80	
CC02-05S15V		15	130	80	
CC02-05D05V		±5	±200	76	
CC02-05D12V		±12	±80	80	
CC02-05D15V		±15	±65	80	
CC02-12S3V3		12 (10.8~13.2)	3.3	600	73
CC02-12S05V			5	400	78
CC02-12S12V	12		165	82	
CC02-12S15V	15		130	82	
CC02-12D05V	±5		±200	78	
CC02-12D12V	±12		±80	82	
CC02-12D15V	±15		±65	82	
CC02-24S3V3	24 (21.6~26.4)		3.3	600	73
CC02-24S05V			5	400	78
CC02-24S12V		12	165	81	
CC02-24S15V		15	130	82	
CC02-24D05V		±5	±200	78	
CC02-24D12V		±12	±80	81	
CC02-24D15V		±15	±65	82	

Absolute Maximum Input Voltage :

- 5Vdc Input Models : 9V
- 12Vdc Input Models : 18V
- 24Vdc Input Models : 30V

GENERAL SPECIFICATIONS :

- Switching Frequency : 70KHz Typical
- Efficiency: See Table
- Isolation Voltage :
Input-to-Output : 3000Vdc
- Isolation Resistance : \geq
1000Mohm(500VDC)

ENVIRONMENTAL SPECIFICATIONS :

- Operating Temperature Range(Ambient):
-25°C to +70°C
- Maximum Case Temperature : +90°C
- Storage Temperature Range: -40°C ~ +125°C
- Cooling : Free-air Convection
- Temperature Coefficient : $\pm 0.05\%$ /°C max
- Humidity : 95%

OUTPUT SPECIFICATIONS :

- Output Voltage & Current : See Table
- Output Voltage Accuracy : $\pm 3\%$ max
- Ripple & Noise(20MHz BW) :
3.3V,5V:100mVp-p(max)
- Others: 1% P-P max.
- Line Regulation : $\pm 1.5\%$ max.
- Load Regulation F.L \rightarrow 1/4F.L : $\pm 10\%$ max.

PHYSICAL SPECIFICATIONS :

- Case Material : Non-Conductive black plastic
- Pin Material : Brass, Solder Coated
- Potting Material: Epoxy
(Flammability to UL94V-0)
- Dimension : 0.77*0.3*0.4 inches
(19.5*7.5*10.2mm)
- Weight : 2.2g

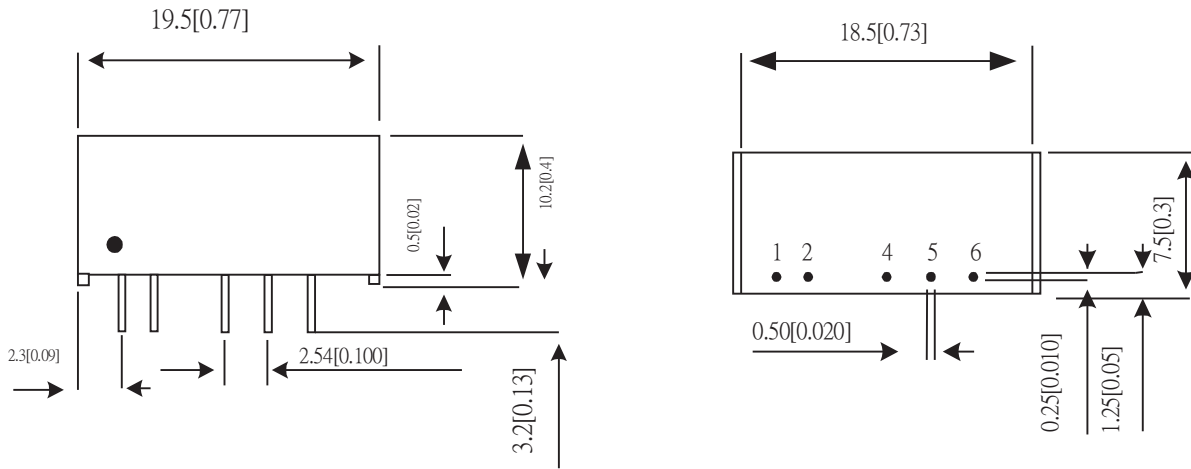
INPUT SPECIFICATIONS :

- Input Voltage Range : See Table
- Input Filter : Pi Type

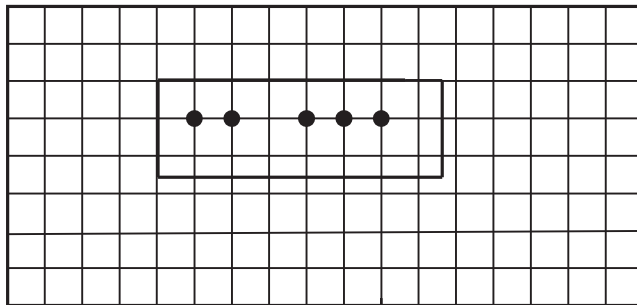
RECOMMENDED INPUT FUSE (Slow Blow) :

- 5Vdc Input Models : 1.0A/250V
- 12Vdc Input Models : 0.5A/250V
- 24Vdc Input Models : 0.2A/250V

Mechanical Specifications



Recommended Pin Patterns Top View (2.54mm / 0.1inch grids)



Pin Connection

Tolerance	Millimeters	Inches
	X ±0.25	.XX ±0.01
	XX ±0.25	.XXX±0.01
Pin	±0.05	±0.002

Pin	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
4	-Vout	-Vout
5	No Pin	Common
6	+Vout	+Vout

Note

- (1) All specifications are typical at Ta=25°C, nominal input voltage, resistive load and rated output current unless otherwise noted.
- (2) The unit will shut down when the case temperature reaches between 105°C~115°C. The unit will automatically restart as long as the case temperature reduced to the normal operating range.
- (3) Specifications subject to change without notice.