



- Features :
- 2:1 wide input range
  - 4:1 wide input range(option)
  - 1000VDC I/O isolation
  - 3000VDC I/O isolation(option)
  - Built-in EMI filter
  - Protections: Short circuit / Overload
  - Cooling by free air convection
  - Five-sided shield metal case
  - 100% burn-in test
  - Low cost / High reliability
  - Approvals: FCC / CE

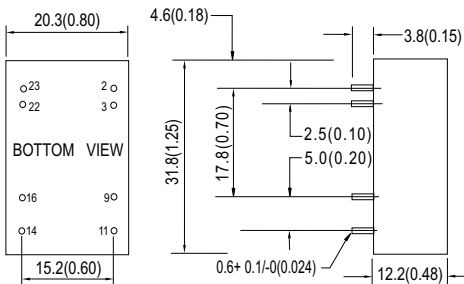


## SPECIFICATION

ORDER NO.	DCW03A-05	DCW03B-05	DCW03C-05	DCW03A-12	DCW03B-12	DCW03C-12	DCW03A-15	DCW03B-15	DCW03C-15		
OUTPUT	DC VOLTAGE			±5V			±12V			±15V	
	CURRENT RANGE			±30 ~ ±300mA			±12.5 ~ ±125mA			±10 ~ ±100mA	
	RATED POWER										3W
	RIPPLE & NOISE (max.) Note.2			50mVp-p			60mVp-p			60mVp-p	
	LINE REGULATION Note.3			±0.5%							
	LOAD REGULATION Note.4			±0.5%							
	VOLTAGE ACCURACY										±2.0%
	SWITCHING FREQUENCY										50KHz min.
INPUT	VOLTAGE RANGE										A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC
	EFFICIENCY (Typ.)										74% 75% 76% 80% 80% 82% 80% 80% 78%
	DC CURRENT		Full load								A: 338mA B: 167mA C: 83mA
			No load								A: 18mA B: 10mA C: 5mA
	FILTER										Pi network
PROTECTION										Fuse recommended	
PROTECTION (Note. 5)	OVERLOAD										160 ~ 250% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed
	SHORT CIRCUIT										All output equipped with short circuit Protection type : Hiccup mode, recovers automatically after fault condition is removed
ENVIRONMENT	WORKING TEMP.										-25 ~ +71°C (Refer to output load derating curve)
	WORKING HUMIDITY										20% ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY										-25 ~ +105°C, 10 ~ 95% RH
	TEMP. COEFFICIENT										±0.03% / °C (0 ~ 50°C)
	VIBRATION										10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes
SAFETY & EMC	WITHSTAND VOLTAGE										I/P-O/P:1KVDC
	ISOLATION RESISTANCE										I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH
	ISOLATION CAPACITANCE										80pF max.
	EMI CONDUCTION & RADIATION										Compliance to EN55022 Class B, FCC part 15 Class B
EMS IMMUNITY										Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A	
OTHERS	MTBF										900khrs min. MIL-HDBK-217F (25°C)
	DIMENSION										31.8*20.3*12.2mm or 1.25**0.80**0.48" inch (L*W*H)
	WEIGHT										15g

### Mechanical Specification

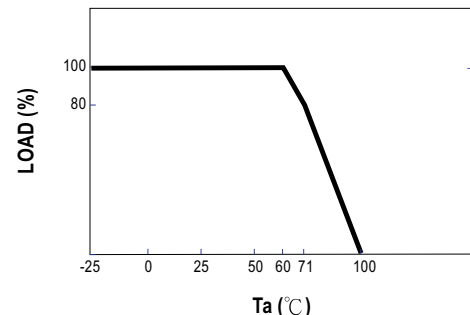
Unit:mm(inch)



### Pin Configuration

Pin No.	Output
2 & 3	-Vin
9	COM
11	-Vout
14	+Vout
16	COM
22 & 23	+Vin

### Derating Curve



### NOTE

- 1.All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
- 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
- 3.Line regulation is measured from low line to high line at rated load.
- 4.Load regulation is measured from 10% to 100% rated load.
- 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.