



- 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
  - 2 years warranty

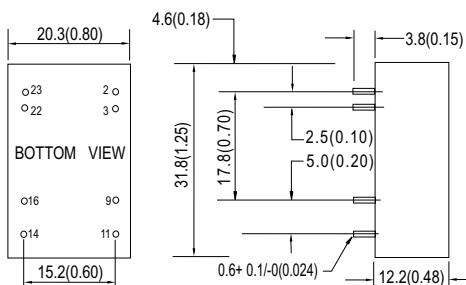


## SPECIFICATION

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%	82%
	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

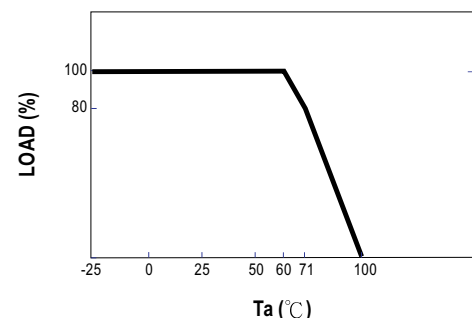
Unit:mm(inch)



### 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.