



3W DC-DC Regulated Dual Output Converter

DCW03 series



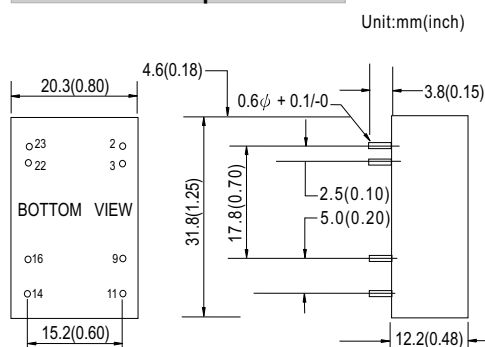
■ Features :

- 2:1 wide input range
- 4:1 wide input range(optional)
- 1000VDC I/O isolation
- Input Pi network filter
- Protections: Short circuit / Over load
- Free air convection
- Five-sided shield metal case
- High reliability / Low cost
- 100% burn-in test
- 1 year 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 (Note. 5)	OVER LOAD		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								
	ISOLATION CAPACITANCE		80pF max.								
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								

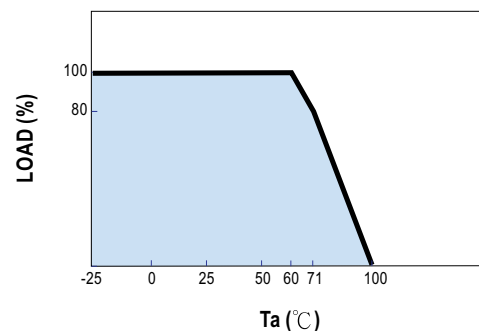
■ Mechanical Specification



■ Pin Configuration

Pin no.	Output Dual
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.