5W DC-DC regulated dual output converter

DCW05 series

Features :

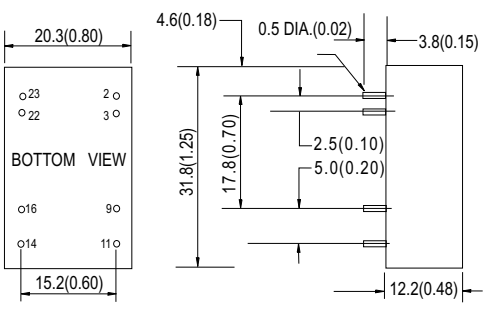
- 2:1 wide input range
- 4:1 wide input range(optional)
- 1000VDC I/O isolation
- Input Pi network filter
- Protections: Short circuit/ Over load
- Free air convection
- Five-sided shield metal case
- High reliability/ Low cost
- 100% burn-in test
- 1 year warranty

SPECIFICATION

ORDER NO.		DCW05A-05	DCW05B-05	DCW05C-05	DCW05A-12	DCW05B-12	DCW05C-12	DCW05A-15	DCW05B-15	DCW05C-15
OUTPUT	DC VOLTAGE	±5V			±12V			±15V		
	CURRENT RANGE	±50 ~ ±500mA			±23 ~ ±230mA			±19 ~ ±190mA		
	RATED POWER	5W			5.5W			5.7W		
	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%								
	SWITCHING FREQUENCY	50KHz min.								
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18~36VDC C: 36~72VDC								
	EFFICIENCY (Typ.)	75%	77%	77%	80%	82%	83%	81%	83%	85%
	DC CURRENT	Full load	A: 586mA B: 286mA C: 139mA							
		No load	A: 41mA B: 21mA C: 12mA							
	FILTER	Pi network								
PROTECTION	OVER LOAD	150~250% rated output load								
		Protection type : Shunt down o/p voltage, re-power on to recover								
	SHORT CIRCUIT	All output equipped with over current protection								
		Protection type : Shun down o/p voltage, re-power on to recover								
ENVIRONMENT	WORKING TEMP.	-25~+71℃ (refer to output load derating curve)								
	WORKING HUMIDITY	20%~90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-25~+105℃, 10~95% RH								
	TEMP. COEFFICIENT	±0.03% / ℃ (0~50℃)								
	VIBRATION	10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC (Note. 5)	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℃)								
	DIMENSION	31.8*20.3*12.2mm (L*W*H) or 1.25"*0.80"*0.48" inch (L*W*H)								
	PACKING	15g								

Mechanical Specification

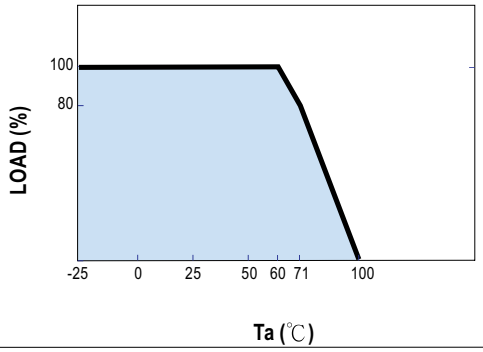
Unit:mm(inch)



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℃ 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.The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.