5W DC-DC Regulated Dual Output Converter

DLW05 series

■ Features :

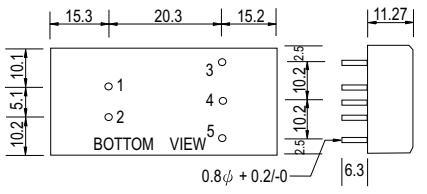
- 2:1 wide input range
- 4:1 wide input range(optional)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Input Pi network filter
- Protections: Short circuit/ Over load
- Free air convection
- Five-sided shield metal case
- High reliability / Low cost
- 100% burn-in test
- 1 year warranty

SPECIFICATION

ORDER NO.		DLW05A-05	DLW05B-05	DLW05C-05	DLW05A-12	DLW05B-12	DLW05C-12	DLW05A-15	DLW05B-15	DLW05C-15
OUTPUT	DC VOLTAGE	±5V			±12V			±15V		
	CURRENT RANGE	±50 ~ ±500mA			±20.8 ~ ±208mA			±16.7 ~ ±167mA		
	RATED POWER	5W								
	RIPPLE & NOISE (max.) Note.2	100mVp-p								
	LINE REGULATION Note.3	±0.2%								
	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: 556mA	B: 270mA	C: 135mA					
		No load	A: 33mA	B: 16mA	C: 10mA					
	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℃ (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./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								
OTHERS	MTBF	800khrs min. MIL-HDBK-217F(25℃)								
	DIMENSION	50.8*25.4*11.27mm or 2.0"*1.0"*0.44" inch (L*W*H)								
	WEIGHT	32g								

■ Mechanical Specification

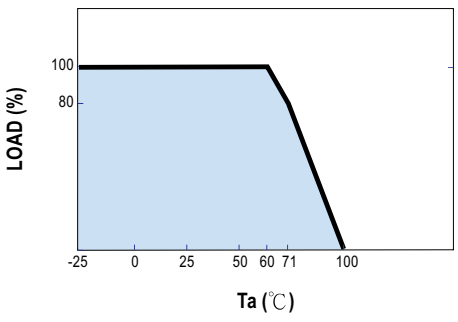
Unit:mm(inch)



■ Pin Configuration

Pin no.	Output Dual
1	+Vin
2	-Vin
3	+Vout
4	COM
5	-Vout

■ 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.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.