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ELECTRONICS

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Jameco Part Number 213234



■ Features :

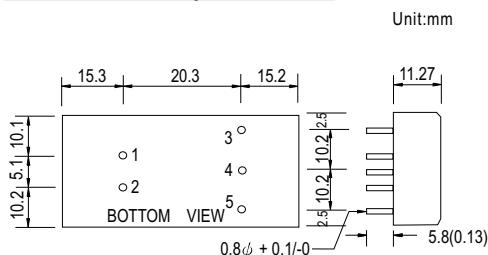
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Input Pi network filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: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



SPECIFICATION

ORDER NO.	SLW05A-05	SLW05B-05	SLW05C-05	SLW05A-09	SLW05B-09	SLW05C-09	SLW05A-12	SLW05B-12	SLW05C-12	SLW05A-15	SLW05B-15	SLW05C-15	
OUTPUT	DC VOLTAGE	5V			9V			12V			15V		
	CURRENT RANGE	100 ~ 1000mA			55.6 ~ 556mA			41.7 ~ 417mA			33.3 ~ 333mA		
	RATED POWER	5W											
	VOLTAGE ACCURACY	±2.0%											
	RIPPLE & NOISE (max.) Note.2	50mVp-p			60mVp-p			60mVp-p			60mVp-p		
	LINE REGULATION Note.3	±0.2%											
	LOAD REGULATION Note.4	±0.5%											
SWITCHING FREQUENCY	50KHz min.												
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC											
	EFFICIENCY (Typ.)	75%	77%	77%	80%	80%	83%	80%	80%	83%	81%	81%	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 CURRENT	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./1cycle, 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											
	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	800khrs min. MIL-HDBK-217F(25°C)											
	DIMENSION	50.8*25.4*11.27mm or 2**1**0.44" inch (L*W*H)											
	WEIGHT	31g											

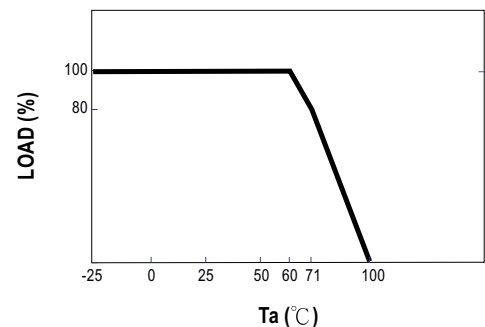
■ Mechanical Specification



■ Pin Configuration

Pin no.	Output Single
1	+Vin
2	-Vin
3	+Vout
4	No Pin
5	-Vout

■ 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.

Quality Engineering Test Report

SERIES: SLW05C

5W DC-DC SINGLE OUTPUT CONVERTER

SAMPLE:

SLW05C-05

+5V / 1A

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
1	DC INPUT VOLTAGE RANGE	I/P : TESTING SPEC : 36~72VDC O/P : FULL LOAD	24~72VDC	P								
2	LINE REGULATION	I/P : 36~72VDC SPEC : ±0.2% O/P : FULL LOAD	-0%~+0.02%	P								
3	LOAD REGULATION	I/P : 48VDC SPEC : ±0.5% O/P : MIN. TO FULL LOAD	-0.08%~+0.08%	P								
4	OUTPUT VOLTAGE TOLERANCE	I/P : 36~72VDC SPEC : NONE O/P : MIN. TO FULL LOAD	-0.08%~+0.1%	P								
5	RIPPLE & NOISE	I/P : 48VDC SPEC : 100mV O/P : FULL LOAD	25mV	P								
6	DC INPUT CURRENT	I/P : 48VDC SPEC : 0.135A O/P : FULL LOAD	0.13A	P								
7	OVER LOAD PROTECTION	I/P : 48VDC SPEC : NONE O/P : TESTING	150%	P								
8	O/P VOLTAGE ACCURACY	I/P : 48VDC SPEC : ±1% O/P : MIN. LOAD	+0.34%	P								
9	SET UP TIME	I/P : 48VDC SPEC : NONE O/P : FULL LOAD	12.2mS	P								
10	HOLD UP TIME	I/P : 48VDC SPEC : NONE O/P : FULL LOAD	2.6mS	P								
11	EFFICIENCY	I/P : 48VDC SPEC : 77% O/P : FULL LOAD	80.4%	P								
12	INSULATION RESISTANCE	SPEC : I/P - O/P 500VDC/1000MΩ MIN.	I/P - O/P > 100M Ω	P								
13	DIELECTRIC / WITHSTAND VOLTAGE	SPEC : I/P - O/P : 1000VDC/ 1 min (10mA CUT-OFF)	NO BREAK I/P - O/P : < 0.02mA	P								
14	BURN-IN TEST	I/P:48VDC O/P:FULL LOAD TA:25 °C BURN-IN DURATION : 13 hrs	NO BREAK	P								
15	TEMPERATURE RISE TEST ΔT OF PARTS	I/P : 48VDC AFTER 13 hrs BURN-IN O/P : FULL LOAD TA : 25 °C <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">POSITION</th> <th style="width: 20%;">SAMPLE</th> <th style="width: 20%;">TEMP</th> <th style="width: 20%;">ΔT</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>SLW05C-05</td> <td>45.3 °C</td> <td>20.3 °C</td> </tr> </tbody> </table>		POSITION	SAMPLE	TEMP	ΔT	CASE	SLW05C-05	45.3 °C	20.3 °C	P
POSITION	SAMPLE	TEMP	ΔT									
CASE	SLW05C-05	45.3 °C	20.3 °C									
16	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 軌道型塑膠加紙盒包裝 2. MARKING : MODEL LABEL 3. MECHANICAL : SIX-SIDED SHIELD METAL CASE 4. DIMENSIONS : LXWXH=50.8X25.4X11.27mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
1998.8.28	SLW05C-05	PASS	鄭讚國	MAX LIN								