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Jameco Part Number 213277



■ Features :

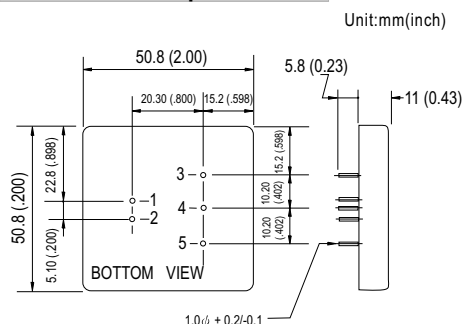
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Input Pi network filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: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



SPECIFICATION

ORDER NO.		SKE15A-05	SKE15B-05	SKE15C-05	SKE15A-12	SKE15B-12	SKE15C-12	SKE15A-15	SKE15B-15	SKE15C-15	SKE15A-24	SKE15B-24	SKE15C-24	
OUTPUT	DC VOLTAGE	5V			12V			15V			24V			
	CURRENT RANGE	300 ~ 3000mA			125 ~ 1250mA			100 ~ 1000mA			62.5 ~ 625mA			
	RATED POWER	15W												
	RIPPLE & NOISE (max.) Note.2	50mVp-p			60mVp-p			60mVp-p			80mVp-p			
	LINE REGULATION Note.3	±0.3%												
	LOAD REGULATION Note.4	±0.5%												
	VOLTAGE ACCURACY	±2.0%												
	SWITCHING FREQUENCY	150KHz min.												
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC												
	EFFICIENCY (Typ.)	79%	79%	80%	80%	82%	82%	80%	83%	83%	82%	83%	84%	
	DC CURRENT	Full load	A: 1700mA B: 800mA C: 400mA											
		No load	A: 40mA B: 20mA 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℃ (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	WITHSTAND VOLTAGE	I/P-O/P:1KVDC												
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 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	300khrs min. MIL-HDBK-217F(25℃)												
	DIMENSION	50.8*50.8*11.0 mm or 2**2**0.43" inch (L*W*H)												
	WEIGHT	65g												

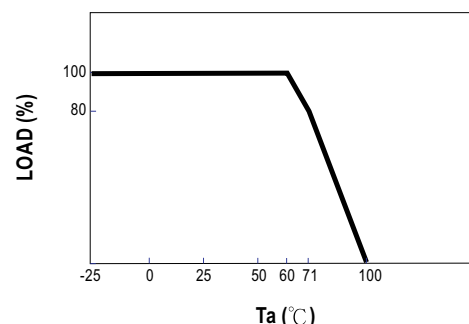
■ Mechanical Specification



■ Pin Configuration

Pin No.	Output
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.

Model : SKE15B-05 15W DC-DC Single Output Converter
V1 : 5V /300~3000mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2% (Max)	I/P:24VDC O/P:50% LOAD Ta:25°C	+0.2%	P
2	RIPPLE & NOISE	50mVp-p (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	23mV	P
3	LINE REGULATION	-0.3%~+0.3% (Max)	I/P:18VDC~36VDC O/P:FULL LOAD Ta:25°C	-0%~+0%	P
4	LOAD REGULATION	-0.5%~+0.5% (Max)	I/P:24VDC O/P:MIN~FULL LOAD Ta:25°C	-0.2%~+0.2%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	DC VOLTAGE RANGE	18VDC~36VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	12.3V~36V	P
2	EFFICIENCY	79% (Typ)	I/P:24VDC O/P:FULL LOAD Ta:25°C	81.3%	P
3	DC CURRENT	800mA (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	770mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	160%~250% (Max)	I/P:24VDC O/P:TESTING Ta:25°C	194% Hiccup Mode Reset Auto Recovery	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:24VDC O/P:FULL LOAD Ta:25°C	NO DAMAGE Hiccup Mode Reset Auto Recovery	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 4HRS I/P:24VDC O/P:FULL LOAD Ta=25°C			P

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:1KVDC/min	I/P-O/P:1KVDC/min Ta:25℃	I/P-O/P:0.02mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P:500VDC Ta:25℃	I/P-O/P:30GΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2003.9.16	SKE15B-05	PASS	FRANK.CHEN	MAX LIN