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ELECTRONICS

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Jameco Part Number 213285



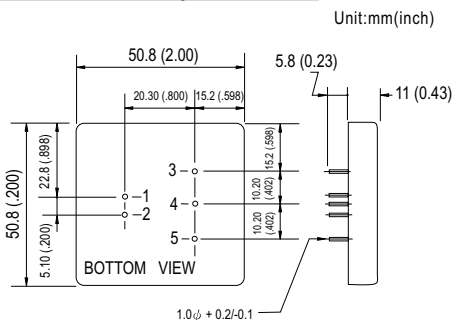
- Features :
- 2:1 wide input range
 - 4:1 wide input range(option)
 - 1000VDC I/O isolation
 - 3000VDC I/O isolation(option)
 - Built-in EMI filter
 - Protections: Short circuit / Overload
 - Cooling by free air convection
 - Six-sided shield metal case
 - 100% burn-in test
 - Low cost / High reliability
 - Approvals: FCC / CE
 - 2 years 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			12V			15V			24V					
	CURRENT RANGE			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												Fuse recommended		
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												300Khrs min. MIL-HDBK-217F(25°C)		
	DIMENSION												50.8*50.8*11.0 mm or 2**2**0.43" inch (L*W*H)		
	WEIGHT												65g		

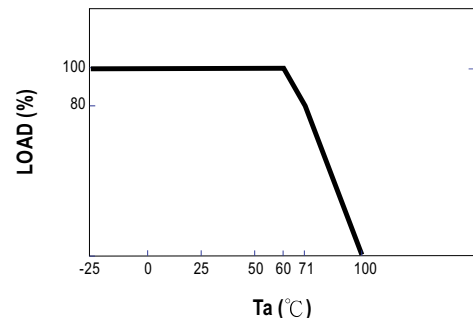
■ Mechanical Specification



■ 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.

Quality Engineering Test Report

SERIES: SKE15B 15W DC-DC SINGLE OUTPUT CONVERTER

SAMPLE:

B: SKE15B-12 +12V / 125~1250mA
 D: SKE15B-24 +24V / 62.5~625mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 18~36VDC O/P:FULL LOAD	B:13.4~36VDC	P
2	LINE REGULATION	I/P:18~36VDC SPEC: $\pm 0.3\%$ O/P:FULL LOAD	B: -0.1% ~ +0% D: -0% ~ +0%	P
3	LOAD REGULATION	I/P:24VDC SPEC: $\pm 0.5\%$ O/P:MIN. TO FULL LOAD	B: -0.1% ~ +0.1% D: -0.1% ~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P:18~36VDC SPEC: NONE O/P:MIN. TO FULL LOAD	B: -0.1% ~ +0.1% D: -0.1% ~ +0%	P
5	RIPPLE&NOISE	I/P:24VDC SPEC: B:60mV O/P:FULL LOAD D:80mV	B: 13mV D: 25mV	P
6	DC INPUT CURRENT	I/P:24VDC SPEC: 0.8A O/P:FULL LOAD	B:0.74A	P
7	O/P VOLTAGE ACCURACY	I/P:24VDC SPEC: $\pm 2\%$ O/P:MIN. LOAD	B: -0.5%(11.94V) D: -0.3%(23.93V)	P
8	EFFICIENCY	I/P:24VDC SPEC: B:82% O/P:FULL LOAD D:83%	B: 83.8% D: 84.6%	P
9	OVER LOAD PROTECTION	I/P:24VDC SPEC: 160~250% O/P:TESTING	B: 198% D: 193%	P
10	INSULATION RESISTANCE	SPEC: I/P--O/P: 500VDC/100M Ohms MIN.	B: I/P--O/P >100M Ohms	P
11	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P--O/P: 1000VDC/ 1 min (10mA CUT-OFF)	B: I/P--O/P:<0.002mA	P

NEXT

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
12	BURN-IN TEST	I/P:24VDC TA:28°C O/P:FULL LOAD BURN-IN DURATION : 15 hrs	B: NO BREAK D: NO BREAK	P								
13	TEMPERATURE RISE TEST T rise OF PARTS	B: I/P :24VDC O/P :FULL LOAD AFTER 15 hrs BURN-IN TA:28°C	<table border="1"> <thead> <tr> <th>POSITION</th> <th>SAMPLE</th> <th>TEMP</th> <th>Trise</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>SKE15B-12</td> <td>48.4°C</td> <td>20.4°C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	Trise	CASE	SKE15B-12	48.4°C	20.4°C	P
POSITION	SAMPLE	TEMP	Trise									
CASE	SKE15B-12	48.4°C	20.4°C									
14	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 軌道型塑膠包裝 2. MARKING : MODEL 3. MECHANICAL : MODULAR TYPE, PIN :1.0Øx5mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
9.5.2002	SKE15B-12 SKE15B-24	PASS	T.K.CHENG	MAX LIN								

PREVIOUS