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Jameco Part Number 216962



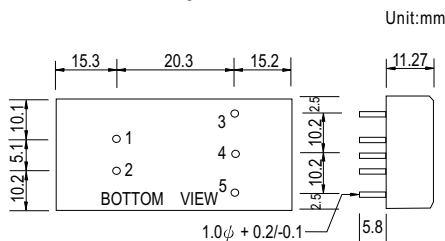
- Features :
- 2:1 wide input range
  - 4:1 wide input range(option)
  - 1000VDC I/O isolation
  - 3000VDC I/O isolation(option)
  - Input Pi network filter
  - Protections: Short circuit / Overload
  - Cooling by free air convection
  - Six-sided shield metal case
  - 100% burn-in test
  - Low cost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



**SPECIFICATION**

ORDER NO.	SKE10A-05	SKE10B-05	SKE10C-05	SKE10A-12	SKE10B-12	SKE10C-12	SKE10A-15	SKE10B-15	SKE10C-15	SKE10A-24	SKE10B-24	SKE10C-24	
OUTPUT	DC VOLTAGE	5V			12V			15V			24V		
	CURRENT RANGE	200 ~ 2000mA			84 ~ 840mA			66.6 ~ 666mA			42 ~ 420mA		
	RATED POWER	10W											
	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	200KHz min.												
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC											
	EFFICIENCY (Typ.)	78%	79%	80%	79%	81%	81%	80%	82%	82%	81%	82%	83%
	DC CURRENT	Full load		A: 1100mA B: 530mA C: 270mA		No load		A: 28mA B: 16mA C: 8mA					
	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	500khrs min. MIL-HDBK-217F(25°C)											
	DIMENSION	50.8*25.4*11.2mm or 2**1**0.44" inch (L*W*H)											
	WEIGHT	32g											

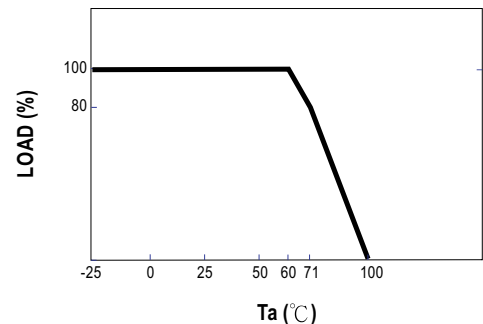
■ Mechanical Specification



■ 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: SKE10A 10W DC-DC SINGLE OUTPUT CONVERTER**

**SAMPLE: A.SKE10A-05 +5V / 2000mA**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 9~18VDC O/P:FULL LOAD	A:8.4~18VDC	P								
2	LINE REGULATION	I/P:9~18VDC SPEC: $\pm 0.3\%$ O/P:FULL LOAD	A:-0.01%~+0%	P								
3	LOAD REGULATION	I/P:12VDC SPEC: $\pm 1\%$ O/P:MIN. TO FULL LOAD	A:-0.01%~+0.02%	P								
4	OUTPUT VOLTAGE TOLERANCE	I/P:9~18VDC SPEC: NONE O/P:MIN. TO FULL LOAD	A:-0.02%~+0.02%	P								
5	RIPPLE&NOISE	I/P:12VDC SPEC: 50mV O/P:FULL LOAD	A:15mV	P								
6	DC INPUT CURRENT	I/P:12VDC SPEC: 1.1A O/P:FULL LOAD	A:1058mA	P								
7	O/P VOLTAGE ACCURACY	I/P:12VDC SPEC: $\pm 2\%$ O/P:MIN. LOAD	A:+0.02%	P								
8	SET UP TIME	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:1.0mS	P								
9	EFFICIENCY	I/P:12VDC SPEC: 81% TYP O/P:FULL LOAD	A:79.0%	P								
10	OVER LOAD PROTECTION	I/P:12VDC SPEC: 160~250% O/P:TESTING	A:172%	P								
11	INSULATION RESISTANCE	SPEC:I/P--O/P 500VDC/1000M Ohms MIN.	A:I/P--O/P > 1000M Ohms	P								
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P-- O/P: 500VDC/ 1 min (10mA CUT-OFF)	A:NO BREAK I/P--O/P :<0.02mA	P								
13	BURN-IN TEST	I/P:12VDC O/P:FULL LOAD TA:25 °C BURN-IN DURATION : 96 hrs	A:NO BREAK	P								
14	TEMPERATURE RISE TEST T rise OF PARTS	A:I/P :12VDC AFTER 96 hrs BURN-IN O/P :FULL LOAD TA:25 °C <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>POSITION</th> <th>SAMPLE</th> <th>TEMP</th> <th>T rise</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>SKE10A-05</td> <td>54.0°C</td> <td>29.0°C</td> </tr> </tbody> </table>		POSITION	SAMPLE	TEMP	T rise	CASE	SKE10A-05	54.0°C	29.0°C	P
POSITION	SAMPLE	TEMP	T rise									
CASE	SKE10A-05	54.0°C	29.0°C									
15	CONSTRUCTION INSPECTION ( FOR QC INSPECTION REFERENCE ONLY )	1. PACKING : 塑膠軌道型包裝 2. MARKING : MODEL LABELx1 3. MECHANICAL : SIX-SIDE SHIELDED CASE, PIN :1.0Øx7mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
2000.12.14	SKE-10A-05	PASS	T.K.CHENG	MAX LIN								

**NEXT**