JAMECO ELECTRONICS Jameco SKU Number: 2107442



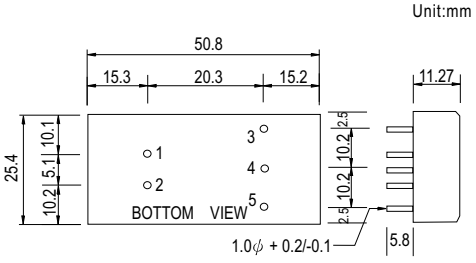
■ Features :

- 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.		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	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℃ (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	500Khrs min. MIL-HDBK-217F(25℃)											
	DIMENSION	50.8*25.4*11.2mm or 2"*1"*0.44" inch (L*W*H)											
	WEIGHT	32g											

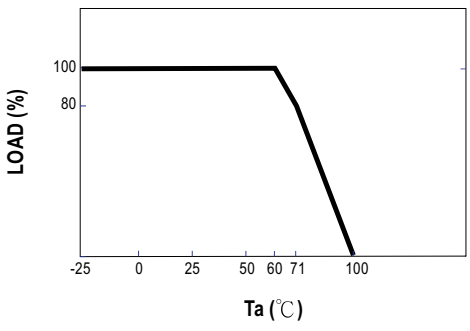
■ Mechanical Specification



■ Pin Configuration

Pin no.	Output
	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℃ 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: SKE10B 10W DC-DC SINGLE OUTPUT CONVERTER

SAMPLE: A.SKE10B-24 +24V / 420mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 18~36VDC O/P:FULL LOAD	A:14~36VDC	P
2	LINE REGULATION	I/P:18~36VDC SPEC: ±0.3% O/P:FULL LOAD	A:-0.01%~+0.01%	P
3	LOAD REGULATION	I/P:24VDC SPEC: ±1% O/P:MIN. TO FULL LOAD	A:-0.01%~+0.05%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P:18~36VDC SPEC: NONE O/P:MIN. TO FULL LOAD	A:-0.02%~+0.06%	P
5	RIPPLE&NOISE	I/P:24VDC SPEC: 80mV O/P:FULL LOAD	A:15mV	P
6	DC INPUT CURRENT	I/P:24VDC SPEC: 550mA O/P:FULL LOAD	A:508mA	P
7	O/P VOLTAGE ACCURACY	I/P:24VDC SPEC: ±2% O/P:MIN. LOAD	A:+0.02%	P
8	SET UP TIME	I/P:24VDC SPEC: NONE O/P:FULL LOAD	A:16.1mS	P
9	EFFICIENCY	I/P:24VDC SPEC: 83% TYP O/P:FULL LOAD	A:82.8%	P
10	OVER LOAD PROTECTION	I/P:24VDC SPEC: 160~250% O/P:TESTING	A:196%	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:24VDC O/P:FULL LOAD TA:25 ºC BURN-IN DURATION : 96 hrs	A:NO BREAK	P
14	TEMPERATURE RISE TEST T rise OF PARTS	A:I/P :24VDC AFTER 96 hrs BURN-IN O/P :FULL LOAD TA:25 ºC POSITION / SAMPLE / TEMP / T rise CASE / SKE10B-24 / 52.0ºC / 27.0ºC		P
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
2000.12.18	SKE-10B-24	PASS	T.K.CHENG	MAX LIN

NEXT