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Jameco Part Number 216980



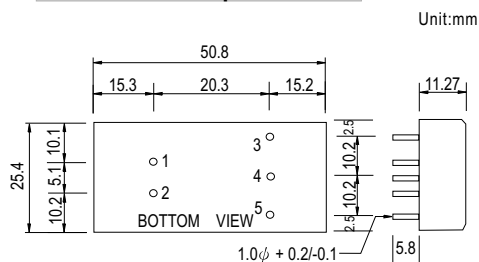
- Features :
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: 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			
<b>OUTPUT</b>	<b>DC VOLTAGE</b>			5V			12V			15V			24V		
	<b>CURRENT RANGE</b>			200 ~ 2000mA			84 ~ 840mA			66.6 ~ 666mA			42 ~ 420mA		
	<b>RATED POWER</b>			10W											
	<b>RIPPLE &amp; NOISE (max.)</b> Note.2			50mVp-p			60mVp-p			60mVp-p			80mVp-p		
	<b>LINE REGULATION</b> Note.3			±0.3%											
	<b>LOAD REGULATION</b> Note.4			±0.5%											
	<b>VOLTAGE ACCURACY</b>			±2.0%											
	<b>SWITCHING FREQUENCY</b>			200KHz min.											
<b>INPUT</b>	<b>VOLTAGE RANGE</b>			A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC											
	<b>EFFICIENCY (Typ.)</b>			78%	79%	80%	79%	81%	81%	80%	82%	82%	81%	82%	83%
	<b>DC CURRENT</b>			Full load			A: 1100mA B: 530mA C: 270mA			No load			A: 28mA B: 16mA C: 8mA		
	<b>FILTER</b>			Pi network											
	<b>PROTECTION</b>			Fuse recommended											
<b>PROTECTION (Note. 5)</b>	<b>OVER CURRENT</b>			160% ~ 250% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed											
	<b>SHORT CIRCUIT</b>			All output equipped with short circuit Protection type : Hiccup mode, recovers automatically after fault condition is removed											
	<b>WORKING TEMP.</b>			-25 ~ +71°C (Refer to output load derating curve)											
<b>ENVIRONMENT</b>	<b>WORKING HUMIDITY</b>			20% ~ 90% RH non-condensing											
	<b>STORAGE TEMP., HUMIDITY</b>			-25 ~ +105°C, 10 ~ 95% RH											
	<b>TEMP. COEFFICIENT</b>			±0.03% / °C (0 ~ 50°C)											
	<b>VIBRATION</b>			10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes											
	<b>WITHSTAND VOLTAGE</b>			I/P-O/P: 1KVDC											
<b>SAFETY &amp; EMC</b>	<b>ISOLATION RESISTANCE</b>			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH											
	<b>EMI CONDUCTION &amp; RADIATION</b>			Compliance to EN55022 Class B, FCC part 15 Class B											
	<b>EMS IMMUNITY</b>			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A											
<b>OTHERS</b>	<b>MTBF</b>			500Khrs min. MIL-HDBK-217F(25°C)											
	<b>DIMENSION</b>			50.8*25.4*11.2mm or 2**1**0.44" inch (L*W*H)											
	<b>WEIGHT</b>			32g											

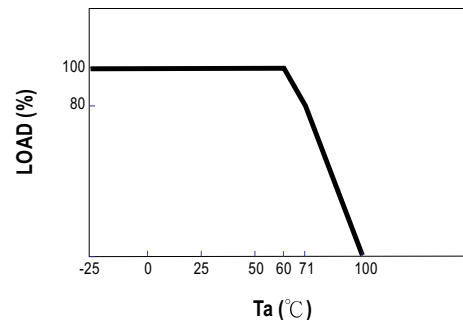
■ Mechanical Specification



■ Pin Configuration

Pinno.	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.

Model : SKE10A-15    10W    DC-DC    Single Output Converter  
 V1 : 15V / 66.6~666mA

**OUTPUT FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2% (Max)	I/P:12VDC O/P:50% LOAD Ta:25°C	-0.4%	P
2	RIPPLE & NOISE	60mVp-p (Max)	I/P:12VDC O/P:FULL LOAD Ta:25°C	10mV	P
3	LINE REGULATION	-0.3%~+0.3% (Max)	I/P:9VDC~18VDC O/P:FULL LOAD Ta:25°C	-0%~+0%	P
4	LOAD REGULATION	-0.5%~+0.5% (Max)	I/P:12VDC O/P:MIN~FULL LOAD Ta:25°C	-0%~+0%	P

**INPUT FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	DC VOLTAGE RANGE	9VDC~18VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	8.4V~18V	P
2	EFFICIENCY	80% (Typ)	I/P:12VDC O/P:FULL LOAD Ta:25°C	80.7%	P
3	DC CURRENT	1100mA (Max)	I/P:12VDC O/P:FULL LOAD Ta:25°C	1030mA	P

**PROTECTION FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	160%~250% (Max)	I/P:12VDC O/P:TESTING Ta:25°C	224% Hiccup Mode Reset Auto Recovery	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:12VDC O/P:FULL LOAD Ta:25°C	NO DAMAGE Hiccup Mode Reset Auto Recovery	P

