

10W DC-DC regulated dual output converter

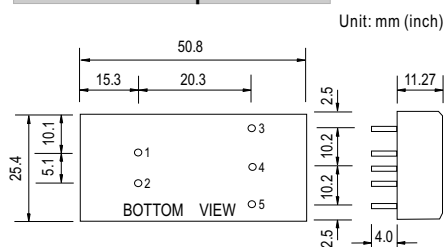


- 2:1 wide input range
- 4:1 wide input range (optional)
- 1000VDC I/O isolation
- Input Pi network filter
- Protections: short circuit / over load
- Free air convection
- Six-sided shield metal case
- High reliability / Low cost
- 100% burn-in test
- 1 year warranty

SPECIFICATION

ORDER NO.		DKE10A-05	DKE10B-05	DKE10C-05	DKE10A-12	DKE10B-12	DKE10C-12	DKE10A-15	DKE10B-15	DKE10C-15	DKE10A-24	DKE10B-24	DKE10C-24	
OUTPUT	DC VOLTAGE	±5V			±12V			±15V			±24V			
	CURRENT RANGE	±100 ~ ±1000mA			±42 ~ ±420mA			±33.3 ~ ±333mA			±21 ~ ±210mA			
	RATED POWER	10W												
	VOLTAGE ACCURACY	±2%												
	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%												
	SWITCHING FREQUENCY	250KHz min.												
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18~36VDC C: 36~72VDC												
	EFFICIENCY (Typ.)	78%	81%	82%	80%	80%	83%	80%	80%	84%	82%	81%	85%	
	DC CURRENT	Full load	A: 1100mA B: 530mA C: 270mA											
		No load	A: 30mA B: 16mA C: 8mA											
	FILTER	Pi network												
PROTECTION	OVER CURRENT	160%~250% Hiccup mode, Reset: auto recovery												
	SHORT CIRCUIT	Continuous, Reset: auto recovery												
ENVIRONMENT	WORKING TEMP., HUMIDITY	-25~+60℃ @, 20%~90% RH non-condensing; 80% load@71℃												
	STORAGE TEMP., HUMIDITY	-25~+105℃, 10~95% RH												
	TEMP. COEFFICIENT	±0.03%/℃												
	VIBRATION	10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes												
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:1KVDC for 1min.												
	ISOLATION RESISTANCE	I/P-O/P: 500VDC/ 100M Ohms min.												
OTHERS	MTBF	500khrs min. MIL-HDBK-217F Part-count GB												
	DIMENSION	50.8*25.4*11.2mm (L*W*H) or 2**1**0.44" inch (L*W*H)												
	PACKING	32g/pcs												

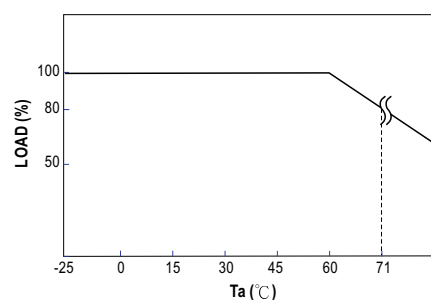
Mechanical Specification



Pin Configuration

Pin No.	Output
1	+Vin
2	-Vin
3	+Vout
4	COMMON
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.