



10W DC-DC Regulated Dual Output Converter

DKE10 series



■ Features :

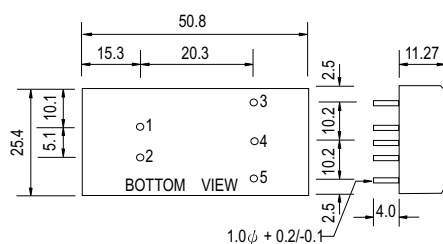
- 2:1 wide input range
- 4:1 wide input range (optional)
- 1000VDC I/O isolation
- Input Pi network filter
- Protections: Short circuit/ Over load
- Free air convection
- Six-sided shield metal case
- High reliability/ Low cost
- 100% burn-in test
- 1 year warranty

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									
	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%									
	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 (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											
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

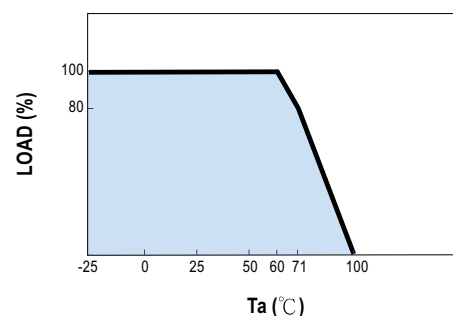
Unit: mm (inch)



■ Pin Configuration

Pinno.	Output Dual
1	+Vin
2	-Vin
3	+Vout
4	COMMON
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.