



15W DC-DC Regulated Dual Output Converter

DKE15 series



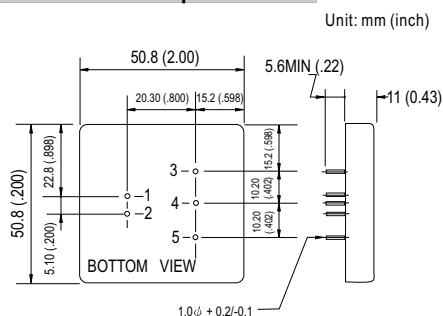
■ Features :

- 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.		DKE15A-05	DKE15B-05	DKE15C-05	DKE15A-12	DKE15B-12	DKE15C-12	DKE15A-15	DKE15B-15	DKE15C-15	DKE15A-24	DKE15B-24	DKE15C-24	
OUTPUT	DC VOLTAGE	±5V			±12V			±15V			±24V			
	CURRENT RANGE	±150 ~ ±1500mA			±62.5 ~ ±625mA			±50 ~ ±500mA			±31.3 ~ ±313mA			
	RATED POWER	15W												
	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	150KHz min.												
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18~36VDC C: 36~72VDC												
	EFFICIENCY (Typ.)	81%	83%	79%	82%	83%	82%	82%	83%	82%	82%	84%	85%	
	DC CURRENT	Full load	A: 1700mA B: 800mA C: 400mA											
		No load	A: 40mA B: 20mA C: 10mA											
	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℃ (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% / °C (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												
OTHERS	MTBF	300khrs min. MIL-HDBK-217F (25℃)												
	DIMENSION	50.8*50.8*11.0mm or 2**2**0.43" inch (L*W*H)												
	WEIGHT	65g												

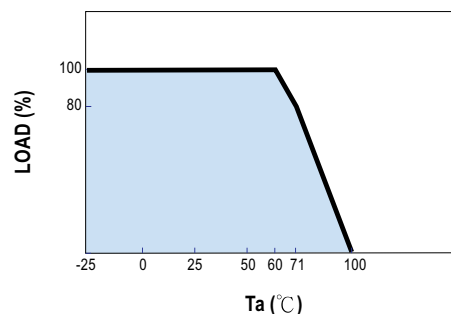
■ Mechanical Specification



■ Pin Configuration

Pin no.	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.