MEAN WELL

15W DC-DC Regulated Dual Output Converter

DKE15 series

■ Features :

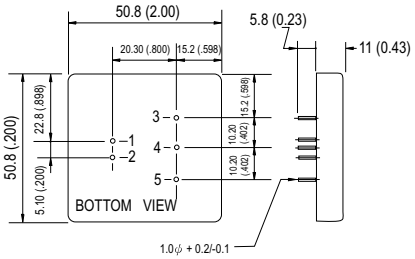
- 2:1 wide input range
- 4:1 wide input range(optionl)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / CE
- 2 years warranty

SPECIFICATION

ORDER NO.		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	±2.0%											
	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	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	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

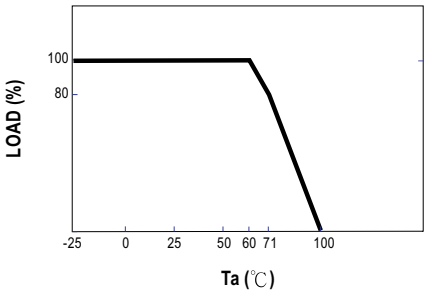
Unit: mm (inch)



■ Pin Configuration

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

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