



GRUBER Electric Ges.m.b.H.

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Komponenten für Steuerungsbau und Industrieelektronik



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

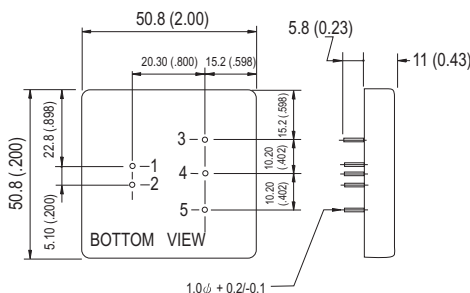


SPECIFICATION

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% / °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 / 25℃ / 70% RH												
	EMC EMISSION	Compliance to EN55022 Class B, FCC part 15 Class B												
	EMC 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

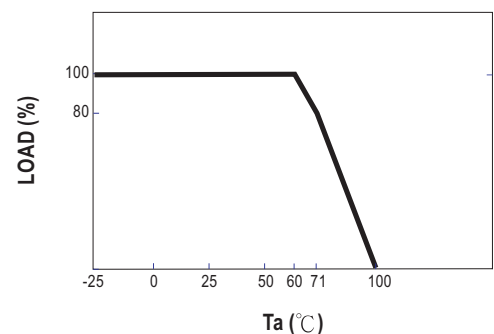
Unit: mm (inch)



Pin Configuration

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

Derating Curve



NOTE

- All parameters are specified at normal input, rated load, 25℃ 70% RH ambient.
- Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
- Line regulation is measured from low line to high line at rated load.
- Load regulation is measured from 10% to 100% rated load.
- Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.