



15W DC-DC Regulated Dual Output Converter

DKE15 series

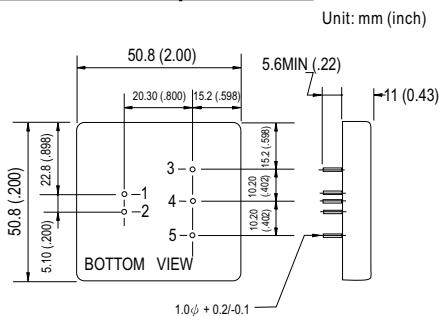


- Features :
 - 2:1 wide input range
 - 4:1 wide input range (optional)
 - 1000VDC I/O isolation
 - Input Pi network filter
 - Protections: Short circuit/ Over load
 - Free air convection
 - Six-sided shield metal case
 - High reliability/ Low cost
 - 100% burn-in test
 - 1 year warranty

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°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		300khrs min. MIL-HDBK-217F (25°C)											
	DIMENSION		50.8*50.8*11.0mm or 2**2**0.43" inch (L*W*H)											
	WEIGHT		65g											

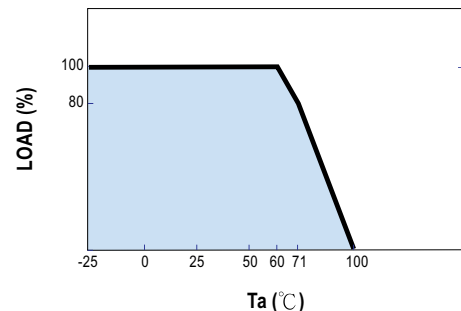
Mechanical Specification



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.