



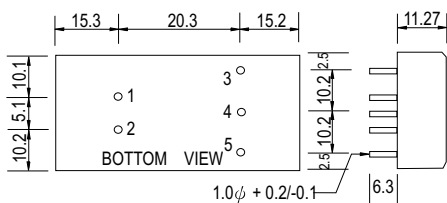
- Features :
- 2:1 wide input range
  - 1000VDC I/O isolation
  - 3000VDC I/O isolation (Optional)
  - Input Pi network filter
  - Protections: Short circuit/ Over load
  - Free air convection
  - Six-sided shield metal case
  - High reliability/ Low cost
  - 100% burn-in test
  - 1 year warranty

## SPECIFICATION

| ORDER NO.            | DKA15A-05                    | DKA15B-05  | DKA15C-05                   | DKA15A-12 | DKA15B-12      | DKA15C-12 | DKA15A-15 | DKA15B-15    | DKA15C-15 |     |
|----------------------|------------------------------|--|-----------------------------|-----------|----------------|-----------|-----------|--------------|-----------|-----|
| OUTPUT               | DC VOLTAGE                   | ±5V  |                             |           | ±12V           |           |           | ±15V         |           |     |
|                      | CURRENT RANGE                | ±150 ~ ±1500mA   |                             |           | ±62.5 ~ ±625mA |           |           | ±50 ~ ±500mA |           |     |
|                      | RATED POWER                  | 15W  |                             |           |                |           |           |              |           |     |
|                      | RIPPLE & NOISE (max.) Note.2 | 50mVp-p  |                             |           | 60mVp-p        |           |           | 60mVp-p      |           |     |
|                      | LINE REGULATION Note.3       | ±0.2%  |                             |           |                |           |           |              |           |     |
|                      | 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.)            | 80%  | 80%                         | 82%       | 83%            | 80%       | 82%       | 83%          | 80%       | 82% |
|                      | DC CURRENT                   | Full load  | A: 1600mA B: 800mA C: 400mA |           |                |           |           |              |           |     |
|                      | No load                      | A: 30mA B: 30mA C: 15mA  |                             |           |                |           |           |              |           |     |
| FILTER               | Pi network                   |  |                             |           |                |           |           |              |           |     |
| PROTECTION (Note. 5) | OVER CURRENT                 | 110%~160% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed           |                             |           |                |           |           |              |           |     |
|                      | SHORT CIRCUIT                | All output equipped with short circuit<br>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*25.4*11.27mm or 2**1**0.44" inch (L*W*H)  |                             |           |                |           |           |              |           |     |
|                      | WEIGHT                       | 60g  |                             |           |                |           |           |              |           |     |

### ■ Mechanical Specification

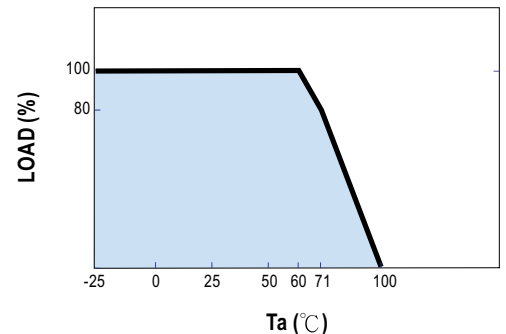
Unit: mm (inch)



### ■ 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.