

# KDD25 SERIES

# DC-DC CONVERTER

## 26.5 ~ 27.2W TRIPLE OUTPUT



KDD25 - 12 T 01

WATTAGE

12 : 9~18V IN	01: +5V/±12V OUT
24 : 18~36V IN	02: +5V/±15V OUT
48 : 36~72V IN	03: +5V/+12V/-5V OUT

T : TRIPLE OUTPUT

### MODEL LIST

MODEL NO.	INPUT VOLTAGE	OUTPUT WATTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFF. (MIN.)	CASE
<b>Triple Output Models</b>						
KDD25 - 12T01	9~18 VDC	27.2 WATTS	+5V/±12V	+4000/±300 mA	76%	C
KDD25 - 12T02	9~18 VDC	26.5 WATTS	+5V/±15V	+3500/±300 mA	77%	C
KDD25 - 24T01	18~36 VDC	27.2 WATTS	+5V/±12V	+4000/±300 mA	77%	C
KDD25 - 24T02	18~36 VDC	26.5 WATTS	+5V/±15V	+3500/±300 mA	78%	C
KDD25 - 24T03	18~36 VDC	25.1 WATTS	+5V/+12V/-15V	+4000/+300/-300 mA	78%	C
KDD25 - 48T01	36~72 VDC	27.2 WATTS	+5V/±12V	+4000/±300 mA	78%	C
KDD25 - 48T02	36~72 VDC	26.5 WATTS	+5V/±15V	+3500/±300 mA	79%	C
KDD25 - 48T03	36~72 VDC	25.1 WATTS	+5V/+12V/-15V	+4000/+300/-300 mA	79%	C

### FEATURES

- \* 2:1 INPUT RANGE
- \* ISOLATION INPUT AND OUTPUT 1.5KV DC
- \* HIGH PERFORMANCE UP TO 79%
- \* SHORT CIRCUIT PROTECTION
- \* 2 YEARS WARRANTY



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### SPECIFICATION

All Specifications Typical At Nominal Line, Full Load, 25°C Unless Otherwise Noticed

#### GENERAL SPECIFICATION

- \* Switching frequency: ..... >80KHz
- \* Isolation voltage: ..... 1,500VDC
- \* Isolation resistance: ..... >1G Ω(min.)
- \* Operating ambient temperature: ..... -25 to +71°C
- \* Storage temperature: ..... -40 to +85°C
- \* Max. Case temperature: ..... 85°C
- \* M.T.B.F.: ..... 389,000Hrs at @ GF40, according to MIL-HDBK-217F
- \* Cooling: ..... Free air convection
- \* Transient recovery time: ..... 500μS, 25% load step change
- \* Temperature coefficient: ..... ±0.02% / °C
- \* Dimension: ..... 70 x 100 x mm

#### INPUT SPECIFICATIONS

- \* Input voltage range / frequency: ..... 9 ~ 18VDC for 12V  
18 ~ 36VDC for 24V  
36 ~ 72VDC for 48V
- \* Input filter: ..... Pi type

#### OUTPUT SPECIFICATIONS

- \* Output voltage accuracy: ..... ±2%  
±3% for -5V\_out
- \* Minimum load: ..... ±20%
- \* Line regulation: ..... ±1% at Vo\_nom
- \* Load regulation: ..... ±2% for +5V  
±5% for ±12V & ±15V & +12V/±15V
- \* Ripple & noise: ..... 20MHZ BM, Vout x ±1% mV p-p  
150mV p-p for -5Vout
- \* Efficiency: ..... Up to 79%, see model list
- \* Derating: ..... See table 1
- \* Case material: ..... Metal

#### CONTROL AND PROTECTION

- \* Output short circuit: ..... Continuous



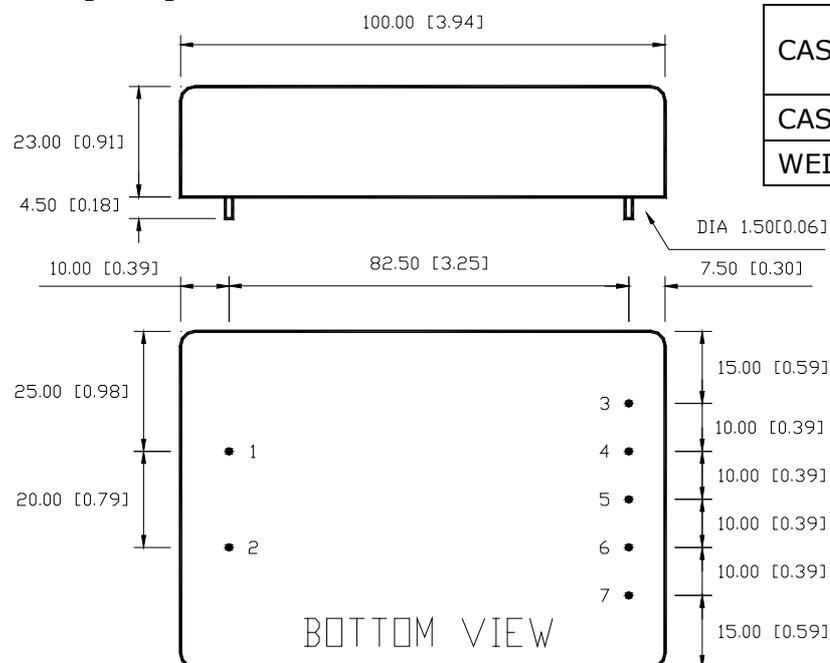
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### MECHANISM & PIN CONFIGURATION

mm [inch]



### PHYSICAL CHARACTERISTICS

CASE SIZE	70 x 100 x 23mm 2.76 x 3.94 x 0.91inches
CASE MATERIAL	Metal
WEIGHT	270 g

### PIN ASSIGNMENT

PIN NO.	1	2	3	4	5	6	7
TRIPLE	Vi+	Vi-	+5V OUT	com	Vo+	com	Vo-

### Derating:

[TABLE 1]

