FDD05 SERIES

DC-DC CONVERTER 5 ~ 6W



FDD05 – 05 S 1

WATTAGE
- 03 : 3.3V OUT
- 05 : 5V OUT
- 12 : 12V OUT
- 15 : 15V OUT

S : SINGLE OUTPUT
D : DUAL OUTPUT

1: 9~18V IN
2: 18~36V IN
3: 36~72V IN
4: 9~36V IN
5: 18~72V IN
*: 20~60V IN

*=BLANK

MODEL LIST

MODEL NO.	INPUT VOLTAGE	OUTPUT WATTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFF. (MIN.)	CASE
Single Output Models						
FDD05 - 05S	20~60 VDC	5 WATTS	+ 5 VDC	1000 mA	72%	FA
FDD05 - 12S	20~60 VDC	6 WATTS	+ 12 VDC	500 mA	72%	FA
FDD05 - 15S	20~60 VDC	6 WATTS	+ 15 VDC	400 mA	72%	FA
FDD05 - 05S1	9~18 VDC	5 WATTS	+ 5 VDC	1000 mA	63%	FA
FDD05 - 12S1	9~18 VDC	6 WATTS	+ 12 VDC	500 mA	68%	FA
FDD05 - 15S1	9~18 VDC	6 WATTS	+ 15 VDC	400 mA	68%	FA
FDD05 - 05S2	18~36 VDC	5 WATTS	+ 5 VDC	1000 mA	72%	FA
FDD05 - 12S2	18~36 VDC	6 WATTS	+ 12 VDC	500 mA	72%	FA
FDD05 - 15S2	18~36 VDC	6 WATTS	+ 15 VDC	400 mA	72%	FA
FDD05 - 05S3	36~72 VDC	5 WATTS	+ 5 VDC	1000 mA	72%	FA
FDD05 - 12S3	36~72 VDC	6 WATTS	+ 12 VDC	500 mA	72%	FA
FDD05 - 15S3	36~72 VDC	6 WATTS	+ 15 VDC	400 mA	72%	FA
FDD05 - 03S4	9~36 VDC	5 WATTS	+3.3 VDC	1500 mA	70%	FA
FDD05 - 05S4	9~36 VDC	5 WATTS	+ 5 VDC	1000 mA	72%	FA
FDD05 - 12S4	9~36 VDC	6 WATTS	+ 12 VDC	500 mA	72%	FA
FDD05 - 15S4	9~36 VDC	6 WATTS	+ 15 VDC	400 mA	72%	FA
FDD05 - 03S5	18~72 VDC	5 WATTS	+3.3 VDC	1500 mA	70%	FA
FDD05 - 05S5	18~72 VDC	5 WATTS	+ 5 VDC	1000 mA	72%	FA
FDD05 - 12S5	18~72 VDC	6 WATTS	+ 12 VDC	500 mA	72%	FA
FDD05 - 15S5	18~72 VDC	6 WATTS	+ 15 VDC	400 mA	72%	FA

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MODEL NO.	INPUT VOLTAGE	OUTPUT WATTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFF. (MIN.)	CASE
Dual Output Models						
FDD05 - 05D	20~60 VDC	5 WATTS	± 5 VDC	± 500 mA	73%	FA
FDD05 - 12D	20~60 VDC	6 WATTS	± 12 VDC	± 250 mA	75%	FA
FDD05 - 15D	20~60 VDC	6 WATTS	± 15 VDC	± 200 mA	75%	FA
FDD05 - 05D1	9~18 VDC	5 WATTS	± 5 VDC	± 500 mA	67%	FA
FDD05 - 12D1	9~18 VDC	6 WATTS	± 12 VDC	± 250 mA	70%	FA
FDD05 - 15D1	9~18 VDC	6 WATTS	± 15 VDC	± 200 mA	70%	FA
FDD05 - 05D2	18~36 VDC	5 WATTS	± 5 VDC	± 500 mA	73%	FA
FDD05 - 12D2	18~36 VDC	6 WATTS	± 12 VDC	± 250 mA	75%	FA
FDD05 - 15D2	18~36 VDC	6 WATTS	± 15 VDC	± 200 mA	75%	FA
FDD05 - 05D3	36~72 VDC	5 WATTS	± 5 VDC	± 500 mA	73%	FA
FDD05 - 12D3	36~72 VDC	6 WATTS	± 12 VDC	± 250 mA	75%	FA
FDD05 - 15D3	36~72 VDC	6 WATTS	± 15 VDC	± 200 mA	75%	FA
FDD05 - 05D4	9~36 VDC	5 WATTS	± 5 VDC	± 500 mA	73%	FA
FDD05 - 12D4	9~36 VDC	6 WATTS	± 12 VDC	± 250 mA	75%	FA
FDD05 - 15D4	9~36 VDC	6 WATTS	± 15 VDC	± 200 mA	75%	FA
FDD05 - 05D5	18~72 VDC	5 WATTS	± 5 VDC	± 500 mA	73%	FA
FDD05 - 12D5	18~72 VDC	6 WATTS	± 12 VDC	± 250 mA	75%	FA
FDD05 - 15D5	18~72 VDC	6 WATTS	± 15 VDC	± 200 mA	75%	FA

FEATURES

* LOW COST
* 4:1 & 3:1 & 2:1 WIDE INPUT RANGE
* I/O ISOLATION
* SHORT CIRCUIT PROTECTION
* HIGH PERFORMANCE

DESCRIPTION

THE FDD05 SERIES ARE 5WATTS & 6W WATTS SINGLE & DUAL OUTPUT DC/DC CONVERTERS. 4:1 & 3:1 & 2:1 WIDE INPUT RANGE WITH I/O ISOLATION AND SHORT CIRCUIT PROTECT FEATURES MAKE IT SUITABLE TO APPLICATION ON VARIABLE APPLICATIONS WITH LOW COST. ALL THE MODELS ARE PACKAGED IN L x W x H = 2" x 2" x 0.47”. CONFIGURATION, AND PCB MOUNTABLE DIRECTLY.

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DC-DC CONVERTER
5 ~ 6W

SPECIFICATION

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

GENERAL SPECIFICATION

* Switching frequency: ..... >80KHz
* Isolation voltage: 1,500VDC
* Isolation resistance: ..... 1G Ω(min.)
* Operating ambient temperature: ..... -25 to +71℃
* Storage temperature: ..... -40 to +100℃
* Max. Case temperature: ..... 90℃
* M.T.B.F.: ..... 661,000Hrs at @ GF40, according to MIL-HDBK-217F
* Cooling: ..... Free air convection
* Temperature coefficient: ..... ±0.02% / ℃
* Dimension: ..... 50.8 x 50.8 x 12mm

INPUT SPECIFICATIONS

* Input voltage range: ..... 9 ~ 18VDC for 12V
  9 ~ 36VDC for 24V
  18 ~ 36VDC for 24V
  18 ~ 72VDC for 48V
  20 ~ 60VDC for 48V
  36 ~ 72VDC for 48V
* Input filter: ..... Pi type
* No load input current: ..... 40mA for 12V in
  25mA for 24V in
  15mA for 48V in
* Max. Input voltage: ..... 20VDC for 12V in
  40VDC for 24V in
  75VDC for 48V in

OUTPUT SPECIFICATIONS

* Output voltage accuracy: ..... ±2% at Vo_nom
* Minimum load: ..... No load for single output models
  ±2% at Vo_nom for dual output models
* Line regulation: ..... ±1% at Vo_nom
* Load regulation: ..... ±2% at Vo_nom for single output models
  ±5% at Vo_nom for dual output models
* Ripple & noise: ..... 150mV (max.)
* Efficiency: ..... Up to 75%, see model list
* Derating: ..... See table 1
* Case material: ..... Plastic

CONTROL AND PROTECTION

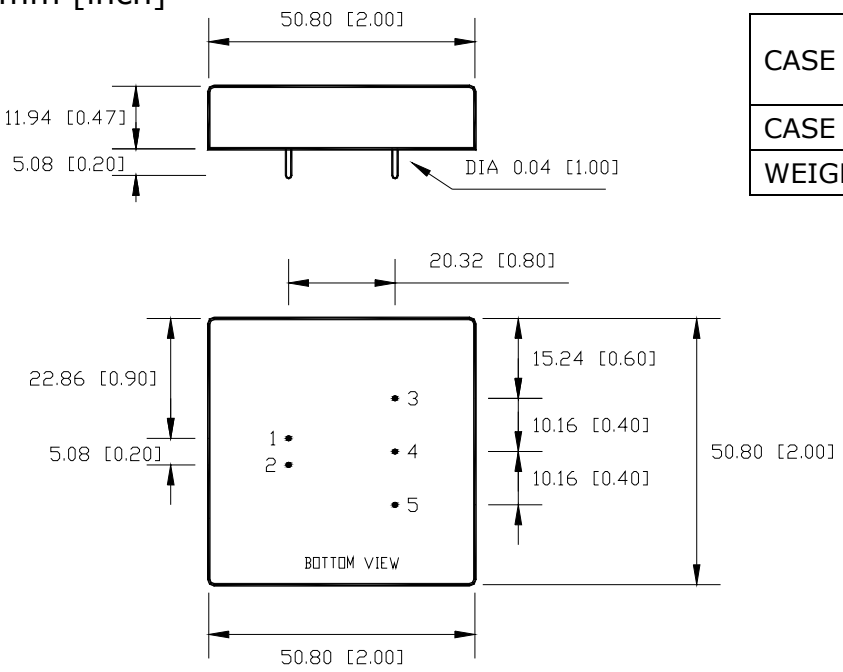
* Input reversed: ..... Shunt diode use external fuse
* Output short circuit: ..... Continuous

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MECHANISM & PIN CONFIGURATION

mm [inch]



PHYSICAL CHARACTERISTICS

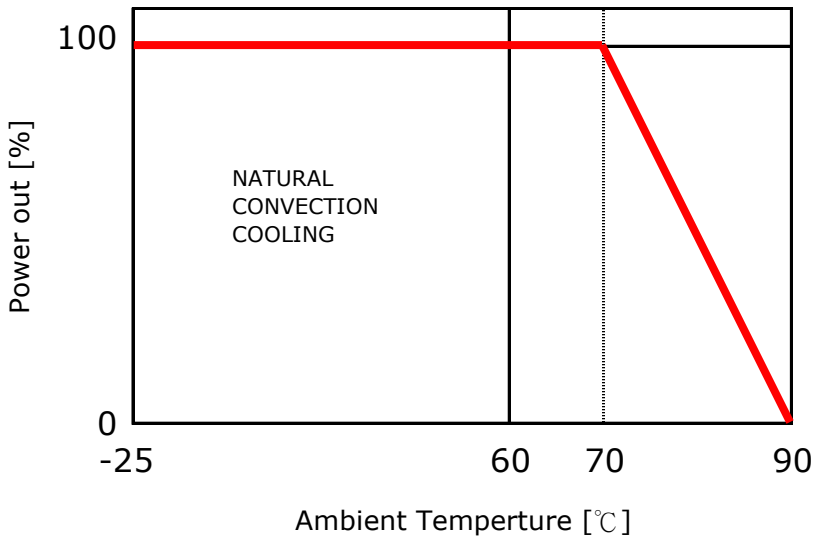
CASE SIZE	50.8 x 50.8 x 12mm 2 x 2 x 0.47inches
CASE MATERIAL	Plastic
WEIGHT	45 g

PIN ASSIGMENT

PIN NO.	1	2	3	4	5
SINGLE	Vi+	Vi-	Vo+	NO PIN	Vo-
DUAL	Vi+	Vi-	Vo+	com	Vo-

Derating:

[TABLE 1]



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