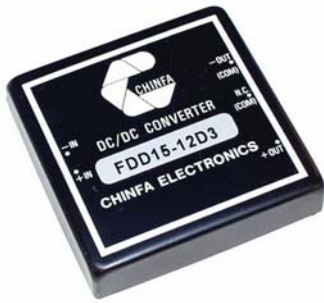


FDD15 SERIES

DC-DC CONVERTER 10 ~ 15W



FDD15 - 03 S 1

WATTAGE

03 : 3.3V OUT

05 : 5V OUT

12 : 12V OUT

15 : 15V OUT

1: 9~18V IN

2: 18~36V IN

3: 36~72V IN

S : SINGLE OUTPUT

D : DUAL OUTPUT

MODEL LIST

MODEL NO.	INPUT VOLTAGE	OUTPUT WATTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFF. (MIN.)	CASE
Single Output Models						
FDD15 - 03S1	9~18 VDC	10 WATTS	+3.3 VDC	3000 mA	75%	FB
FDD15 - 05S1	9~18 VDC	10 WATTS	+ 5 VDC	2000 mA	65%	FB
FDD15 - 12S1	9~18 VDC	10 WATTS	+ 12 VDC	834 mA	65%	FB
FDD15 - 15S1	9~18 VDC	10 WATTS	+ 15 VDC	667 mA	65%	FB
FDD15 - 05S2	18~36 VDC	15 WATTS	+ 5 VDC	3000 mA	70%	FB
FDD15 - 12S2	18~36 VDC	15 WATTS	+ 12 VDC	1250 mA	76%	FB
FDD15 - 15S2	18~36 VDC	15 WATTS	+ 15 VDC	1000 mA	78%	FB
FDD15 - 03S3	36~72 VDC	10 WATTS	+3.3 VDC	3000 mA	80%	FB
FDD15 - 05S3	36~72 VDC	15 WATTS	+ 5 VDC	3000 mA	70%	FB
FDD15 - 12S3	36~72 VDC	15 WATTS	+ 12 VDC	1250 mA	76%	FB
FDD15 - 15S3	36~72 VDC	15 WATTS	+ 15 VDC	1000 mA	78%	FB
Dual Output Models						
FDD15 - 12D1	9~18 VDC	10 WATTS	± 12 VDC	± 417 mA	73%	FB
FDD15 - 15D1	9~18 VDC	10 WATTS	± 15 VDC	± 334 mA	75%	FB
FDD15 - 12D2	18~36 VDC	15 WATTS	± 12 VDC	± 625 mA	80%	FB
FDD15 - 15D2	18~36 VDC	15 WATTS	± 15 VDC	± 500 mA	80%	FB
FDD15 - 12D3	36~72 VDC	15 WATTS	± 12 VDC	± 625 mA	80%	FB
FDD15 - 15D3	36~72 VDC	15 WATTS	± 15 VDC	± 500 mA	80%	FB

FEATURES

- * LOW COST
- * 2:1 WIDE INPUT RANGE
- * I/O ISOLATION
- * LC INPUT FILTER
- * SHORT CIRCUIT PROTECTION
- * HIGH PERFORMANCE
- * 2 YEARS WARRANTY

DESCRIPTION

THE FDD15 SERIES ARE 10 WATTS AND 15 WATTS SINGLE & DUAL OUTPUT DC/DC CONVERTERS. 2 : 1 WIDE INPUT RANGE WITH I/O ISOLATION AND SHORT CIRCUIT PROTECTION FEATURES MAKES IT SUITABLE USED ON VARIABLE APPLICATIONS WITH LOW COST. ALL FDD15 MODELS CONTAIN LC INPUT FILTER TO MINIMIZE REFLECTED RIPPLE & NOISE. ALL MODELS ARE PACKAGED IN L x W x H = 2" x 2" x 0.47" BLACK COATED METAL CASE, AND PCB MOUNTABLE DIRECTLY.



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SPECIFICATION

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

GENERAL SPECIFICATION

- * Switching frequency: 200KHz (typ.)
- * Isolation voltage: 1,500VDC
- * Isolation resistance: 100M Ω (min.)
- * Operating ambient temperature: -10 to +50°C
- * Storage temperature: -25 to +100°C
- * Max. Case temperature: 100°C
- * M.T.B.F.: 695,900Hrs at @ GF40, according to MIL-HDBK-217F
- * Cooling: Free air convection
- * Transient recovery time: 500 μ S, 25% load step change
- * Temperature coefficient: $\pm 0.02\%$ / °C
- * Dimension: 50.8 x 50.8 x 12mm

INPUT SPECIFICATIONS

- * Input voltage range : 9 ~ 18VDC for 12V
18 ~ 36VDC for 24V
36 ~ 72VDC for 48V
- * Input filter: LC type

OUTPUT SPECIFICATIONS

- * Output voltage accuracy: $\pm 2\%$ at Vo_nom
- * Minimum load: No load for single output models
 $\pm 20\%$ at Vo_nom for dual output models
- * Line regulation: $\pm 1\%$ at Vo_nom
- * Load regulation: $\pm 2\%$ at Vo_nom for single output models
 $\pm 5\%$ at Vo_nom for dual output models
- * Ripple & noise: $\pm 1\%$ Vout
100mV (max.) for 3.3VDC
- * Efficiency: Up to 80%, see model list
- * Derating: See table 1
- * Case material: Metal

CONTROL AND PROTECTION

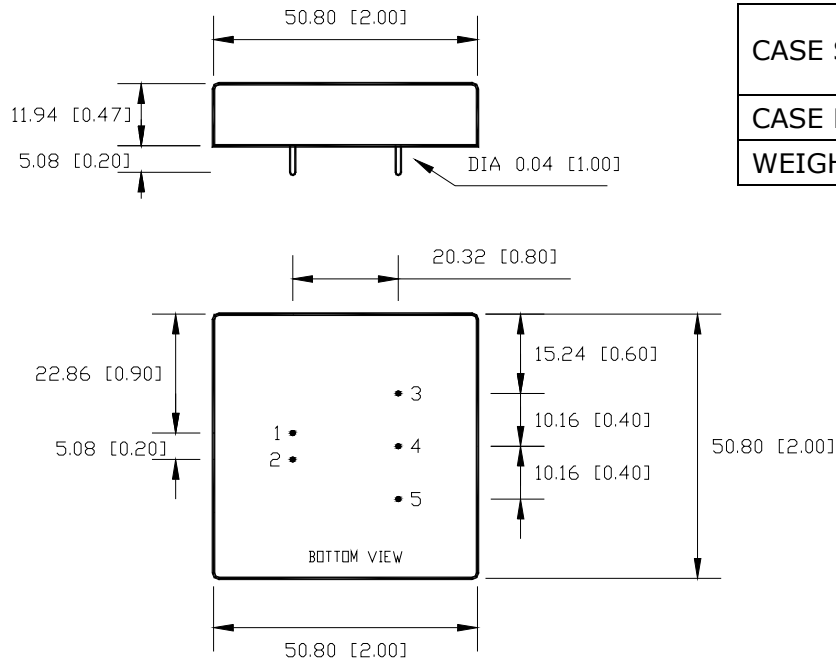
- * Output short circuit: Continuous

FDD15 SERIES

DC-DC CONVERTER 10 ~ 15W

MECHANISM & PIN CONFIGURATION

mm [inch]



PHYSICAL CHARACTERISTICS

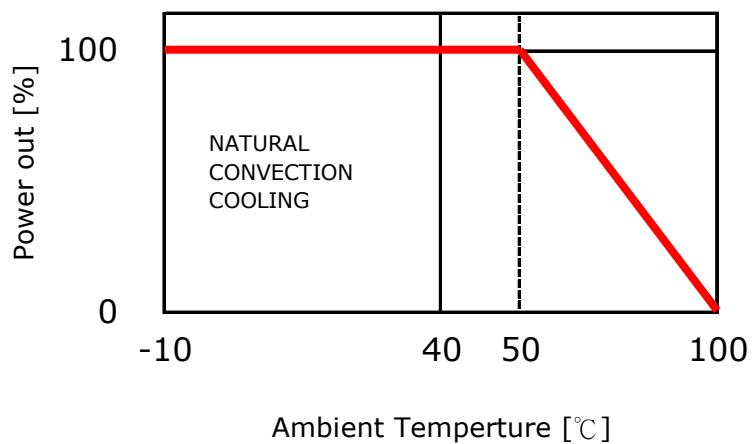
CASE SIZE	50.8 x 50.8 x 12mm 2 x 2 x 0.47inches
CASE MATERIAL	Metal
WEIGHT	65 g (typ.)

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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