

FDD15 SERIES

DC-DC CONVERTER 10 ~ 15W TRIPLE OUTPUT



FDD15 - 0512 I 1

WATTAGE

0512 : +5V&±12V OUT

0515 : +5V&±15V OUT

1: 9~18V IN

2: 18~36V IN

3: 36~72V IN

T : TRIPLE OUTPUT

MODEL LIST

MODEL NO.	INPUT VOLTAGE	OUTPUT WATTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFF. (MIN.)	CASE
Single Output Models						
FDD15 - 0512T1	9~18 VDC	10 WATTS	+5/±12VDC	1.5A/±0.12A	77%	FD
FDD15 - 0515T1	9~18 VDC	10 WATTS	+5/±15VDC	1.5A/±0.1A	77%	FD
FDD15 - 0512T2	18~36 VDC	15 WATTS	+5/±12VDC	2A/±0.2A	80%	FD
FDD15 - 0515T2	18~36 VDC	15 WATTS	+5/±15VDC	2A/±0.16A	80%	FD
FDD15 - 0512T3	36~72 VDC	15 WATTS	+5/±12VDC	2A/±0.2A	80%	FD
FDD15 - 0515T3	36~72 VDC	15 WATTS	+5/±15VDC	2A/±0.16A	80%	FD

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 TRIPLE OUTPUT DC/DC CONVERTERS. 2:1 WIDE INPUT RANGE WITH I/O ISOLATION AND SHORT CIRCUIT PROTECTION FEATURES MAKE IT SUITABLE TO BE USED ON VARIABLE APPLICATIONS AT 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: >180KHz
- * Isolation voltage: 1500VDC
- * Isolation resistance: >1G Ω (min.)
- * Operating ambient temperature: -10 to +50°C
- * Storage temperature: -40 to +100°C
- * Max. Case temperature: 75°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 (max.)
- * Dimension: 50.8 x 50.8 x 12mm

INPUT SPECIFICATIONS

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

OUTPUT SPECIFICATIONS

- * Output voltage accuracy: $\pm 2\%$ for +5V
 $\pm 6\%$ for $\pm 12V$ & $\pm 15V$
- * Minimum load: $\pm 10\%$ for +5V
 $\pm 20\%$ for $\pm 12V$ & $\pm 15V$
- * Load regulation: $\pm 2\%$ for +5V
 $\pm 6\%$ for $\pm 12V$ & $\pm 15V$
- * Ripple & noise: 20MHZ BW, $V_{out} \times \pm 1\%$ mV p-p (max.)
- * Efficiency: Up to 80%, see model list
- * Derating: See table 1
- * Case material: Metal

CONTROL AND PROTECTION

- * Remote on/off: ON : Open or 8 ~ 10VDC
OFF : -0.3 ~ 2VDC
- * Output short circuit: Continuous

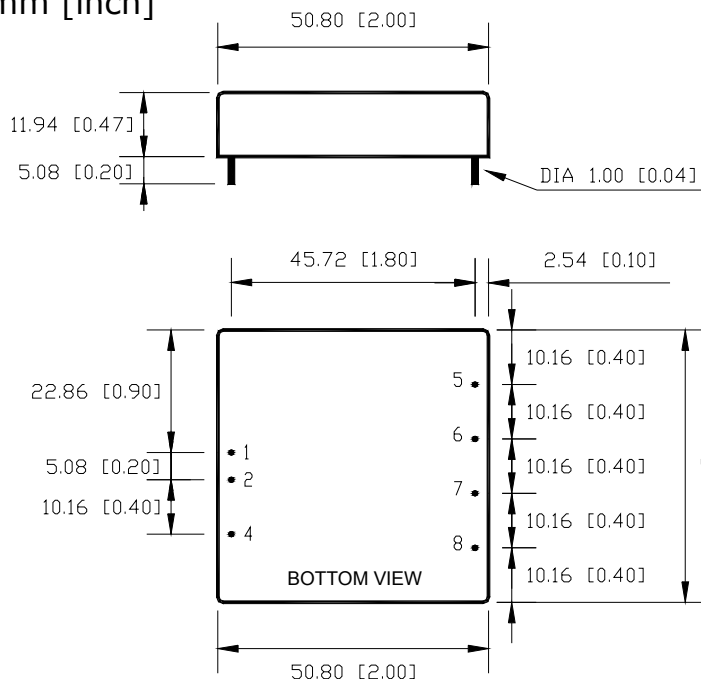
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DC-DC CONVERTER

10 ~ 15W TRIPLE OUTPUT

MECHANISM & PIN CONFIGURATION

mm [inch]



PHYSICAL CHARACTERISTICS

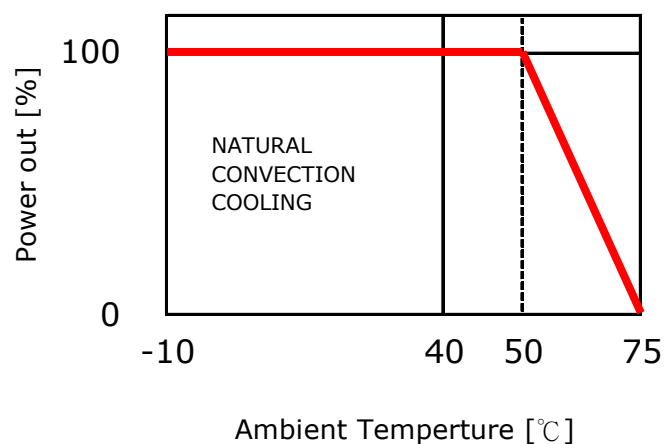
CASE SIZE	50.8 x 50.7 x 12mm 2 x 2 x 0.47inches
CASE MATERIAL	Metal
WEIGHT	70 g

PIN ASSIGNMENT

PIN NO.	1	2	4	5	6	7	8
TRIPLE	Vi+	Vi-	ON/OFF	Vo2 (+OUT)	Vo1 (+5V)	com	Vo3 (-OUT)

Derating:

[TABLE 1]



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