

Unregulated  
Case style: DIP 8

## INDUSTRIAL DC/DC Converters SHORT CIRCUIT PROOF

0,25 - 1 Watt  
Series: FMD8

### Electrical specifications:

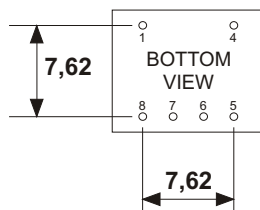
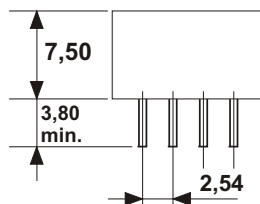
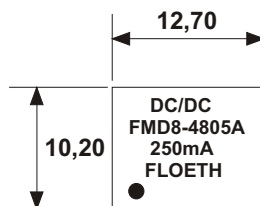
Input voltage range: +/- 10%  
Output voltage accuracy: +/- 2% (Vin=nominal & full load)  
+/- 5% (Vin<=3,3V)  
Output voltage @ zero Load: approx. 20% above nominal  
Line Vin/Vout: +/- 1% / +/- 1%  
Output voltage change: 3,3V, 5V output types 15% max.  
(10% to 100%) 9 ~ 24V output types 10% max.  
Efficiency: up to 80%  
Output Ripple & Noise: 250mVp-p

Short circuit protection: continuous  
Operating temperature: -40°C to +95°C  
Ambient temperature: -40°C to +71°C  
Insulation test voltage: 1000V DC  
Optional:  
Part-Nr. /2 : 0,25W output power  
Part-Nr. /5 : 0,5 W output power  
Part-Nr. /7 : 0,75W output power

### CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

Part - No. Single Output	Input Voltage	Output Voltage	Output Current	Part - No. Dual Output	Input Voltage	Output Voltage	Output Current
FMD8-0505 FMD8-0512 FMD8-0515	5V	5V 12V 15V	200mA 83mA 66mA	FMD8-0505D FMD8-0512D FMD8-0515D	5V	+/- 5V +/-12V +/-15V	+/-100mA +/- 41mA +/- 33mA
FMD8-1205 FMD8-1212 FMD8-1215	12V	5V 12V 15V	200mA 83mA 66mA	FMD8-1205D FMD8-1212D FMD8-1215D	12V	+/- 5V +/-12V +/-15V	+/-100mA +/- 41mA +/- 33mA
FMD8-1505 FMD8-1512 FMD8-1515	15V	5V 12V 15V	200mA 83mA 66mA	FMD8-1505D FMD8-1512D FMD8-1515D	15V	+/- 5V +/-12V +/-15V	+/-100mA +/- 41mA +/- 33mA
FMD8-2405 FMD8-2412 FMD8-2415 FMD8-2424	24V	5V 12V 15V 24V	200mA 83mA 66mA 41mA	FMD8-2405D FMD8-2412D FMD8-2415D	24V	+/- 5V +/-12V +/-15V	+/-100mA +/- 41mA +/- 33mA

Any other input and output voltages available



Note: Input capacitor  
4,7µF - 10µF is a must

PIN CONNECTION:			
PIN	SINGLE	SINGLE A*	Dual
1	- IN	- IN	- IN
4	+ IN	+ IN	+ IN
5	+ Vout	+ Vout	+ Vout
6	NC	NP	COM
7	NP	- Vout	NP
8	- Vout	NP	- Vout

\* Add "A" to the end of partnumber.  
For example FMD8-0505A

ALL DIMENSIONS IN MM  
MILLIMETERS +/- 0.25mm  
All pins on a 2,54mm pitch.  
Pin size is 0,5mm ( 0,020 inch ) DIA  
NC = No connection; NP = No pin

Dot denotes pin 1

Output Ripple Uin 5V:  
capacitor recommended  
10µF Tantal = R. 100mVp-p  
10µF Tantal & 100µF Elko  
Ripple = 50mVp-p

Specification may be changed without notice  
please contact office for verification

We can offer EMC - Filter  
according to EN55011/22 Class B.

Unregulated  
 Case style: DIP 8  
 Short circuit proof

## INDUSTRIAL DC/DC Converters ISOLATED OUTPUTS

1 Watt  
 Series: FMD8

### Electrical specifications:

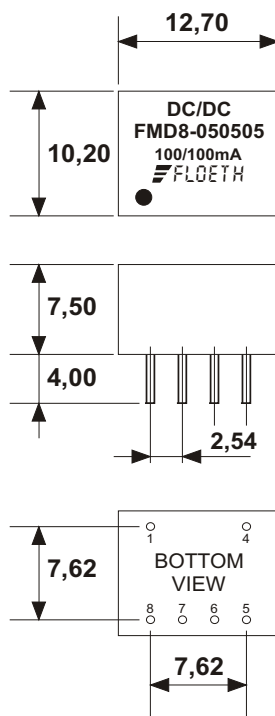
Input voltage range: +/- 10%  
 Output voltage accuracy: +/- 2% ( $V_{in}$ =nominal & full load)  
 +/- 5% ( $V_{in}$ < 3,3V)  
 Line  $V_{in}/V_{out}$ : +/- 1% / +/- 1%  
 Output voltage change: 3,3V, 5V output types 15% max.  
 (10% to 100%) 9V ~ 24V output types 10% max.  
 Efficiency: up to +80%

Output ripple & noise: 150mVp-p  
 Short circuit protection: continuous  
 Operating temperature: -40°C to +95°C  
 Ambient temperature: -40°C to +71°C  
 Insulation test voltage: I/O 1000V DC  
 O/O 1000V DC  
 Output voltage: @ zero Load:  
 approx. 15% above nominal

CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

Part-No. Dual output	Input Voltage	Output voltage DC	Output current
FMD8-050505 FMD8-051212 FMD8-051515	5V	5V / 5V 12V / 12V 15V / 15V	100mA / 100mA 41mA / 41mA 33mA / 33mA
FMD8-120505 FMD8-121212 FMD8-121515	12V	5V / 5V 12V / 12V 15V / 15V	100mA / 100mA 41mA / 41mA 33mA / 33mA
FMD8-150505 FMD8-151212 FMD8-151515	15V	5V / 5V 12V / 12V 15V / 15V	100mA / 100mA 41mA / 41mA 33mA / 33mA
FMD8-240505 FMD8-241212 FMD8-241515	24V	5V / 5V 12V / 12V 15V / 15V	100mA / 100mA 41mA / 41mA 33mA / 33mA

Any other input and output voltages available



PIN CONNECTION:	
PIN	Dual
1	- IN
4	+ IN
5	+ OUT 1
6	- OUT 1
7	- OUT 2
8	+ OUT 2

Note: Input capacitor  
 4,7µF - 10µF is a must

MILLIMETERS XXXX +/- 0.25  
 All Dimensions in mm  
 All Pins on a 2,54mm pitch.  
 Pin size is 0,5mm ( 0,020 inch ) DIA  
 NC = No connection; NP = No pin

Dot denotes pin 1

Specification may be changed without notice  
 please contact office for verification

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