

Unregulated
Case style: DIP 8

INDUSTRIAL DC/DC Converters SHORT CIRCUIT PROOF

0,25 - 1 Watt
Series: FMD8

Electrical specifications:

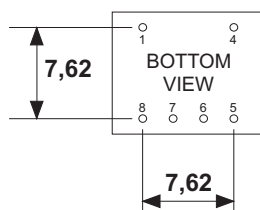
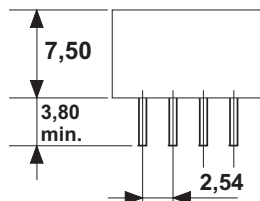
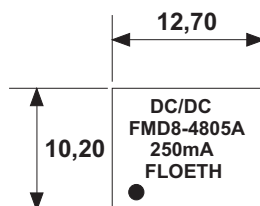
Input voltage range: +/- 10%
Output voltage accuracy: +/- 2% (Vin=nominal & full load)
+/- 5% (Vin<3,3V)
Output voltage @ zero Load: approx. 20% above nominal
Line Vin/Vout: +/- 1% / +/- 1%
Output voltage change: 3,3V, 5V output types 15% max.
(10% to 100%) 9 ~ 24V output types 10% max.
Efficiency: min. 65%
Output Ripple & Noise: 250mVp-p

Short circuit protection: continuous
Ambient temperature: -40°C to +71°C
Operating temperature: max. +95°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:

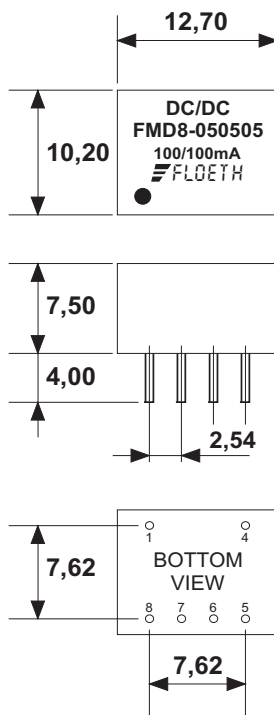
Input voltage range: $\pm 10\%$
Output voltage accuracy: $\pm 2\%$ (V_{in} =nominal & full load)
 $\pm 5\%$ ($V_{in} \leq 3,3V$)
Line V_{in}/V_{out} : $\pm 1\%$ / $\pm 1\%$
Output voltage change: 3,3V, 5V output types 15% max.
(10% to 100%) 9V ~ 24V output types 10% max.
Efficiency: min. 70%

Output ripple & noise: 150mVp-p
Short circuit protection: continuous
Ambient temperature: $-40^{\circ}C$ to $+71^{\circ}C$
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
4,7 μ F - 10 μ F 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
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