

Unregulated
Case style: DIP 8

INDUSTRIAL DC/DC Converters SHORT CIRCUIT PROOF

0,25 - 1 Watt
Series: FMD8

Electrical specifications:

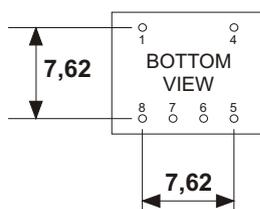
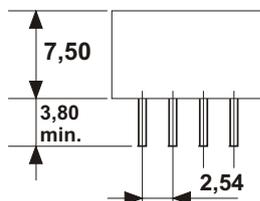
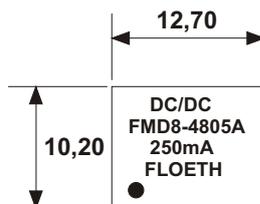
Input voltage range: +/- 10%
Output voltage accuracy: +/- 2% (Vin=nominal & full load)
+/- 5% (Vin<3,3V)
Output voltage @ zero Load: approx. 20% above nominal
Line Vin/Vout: +/- 1% / +/- 1%
Output voltage change: 3,3V, 5V output types 15% max.
(10% to 100%) 9 ~ 24V output types 10% max.
Efficiency: up 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	5V	5V	200mA	FMD8-0505D	5V	+/- 5V	+/-100mA
FMD8-0512		12V	83mA	FMD8-0512D		+/-12V	+/- 41mA
FMD8-0515		15V	66mA	FMD8-0515D		+/-15V	+/- 33mA
FMD8-1205	12V	5V	200mA	FMD8-1205D	12V	+/- 5V	+/-100mA
FMD8-1212		12V	83mA	FMD8-1212D		+/-12V	+/- 41mA
FMD8-1215		15V	66mA	FMD8-1215D		+/-15V	+/- 33mA
FMD8-1505	15V	5V	200mA	FMD8-1505D	15V	+/- 5V	+/-100mA
FMD8-1512		12V	83mA	FMD8-1512D		+/-12V	+/- 41mA
FMD8-1515		15V	66mA	FMD8-1515D		+/-15V	+/- 33mA
FMD8-2405	24V	5V	200mA	FMD8-2405D	24V	+/- 5V	+/-100mA
FMD8-2412		12V	83mA	FMD8-2412D		+/-12V	+/- 41mA
FMD8-2415		15V	66mA	FMD8-2415D		+/-15V	+/- 33mA
FMD8-2424		24V	41mA				

Any other input and output voltages available



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

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

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 specifications typical @ T_a +25°C
Nom. Vin & full load, unless otherwise specified!

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:

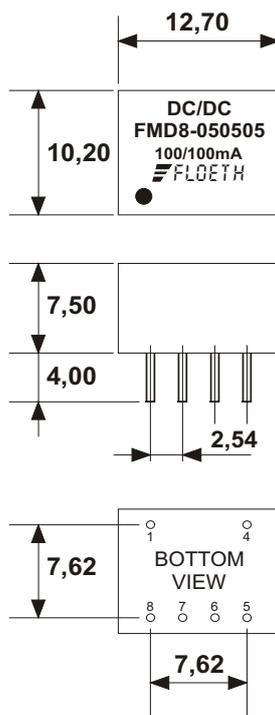
Input voltage range: +/- 10%
 Output voltage accuracy: +/- 2% (V_{in} =nominal & full load)
 +/- 5% (V_{in} < 3,3V)
 Line V_{in}/V_{out} : +/- 1% / +/- 1%
 Output voltage change: 3,3V, 5V output types 15% max.
 (10% to 100%) 9V ~ 24V output types 10% max.
 Efficiency: up to +80%

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

All specifications typical @ T_a +25°C
 Nom. V_{in} & full load, unless otherwise specified!

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