



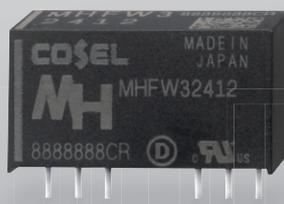
High Isolation

MH series

High Isolation PCB mount type DC-DC Converter



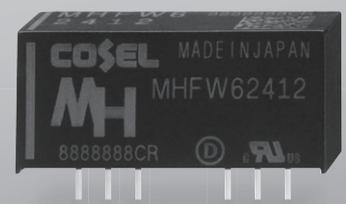
MHFS3



MHFW3



MHFS6



MHFW6

INDUSTRIAL/MEDICAL & ITE 3W/6W

NEW

MH

series

High Isolation Model MH series released!

Meets Market Requirements of
High Isolation between Input and Output
 Reliable and safe with High Isolation

All models
 Wide Input (4:1)
 4.5-18VDC
 9-36VDC
 18-76VDC

MHFS3
 Output Power:3W
 Single Output:
 3.3V/5V/9V/
 12V/15V

MHFS6
 Output Power:6W
 Single Output:
 3.3V/5V/9V/
 12V/15V

6W

MHFW3
 Output Power:3W
 Dual Outputs:
 ±12V (24V) /
 ±15V (30V)

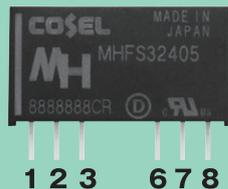
MHFW6
 Output Power:6W
 Dual Outputs:
 ±12V (24V) /
 ±15V (30V)

3W

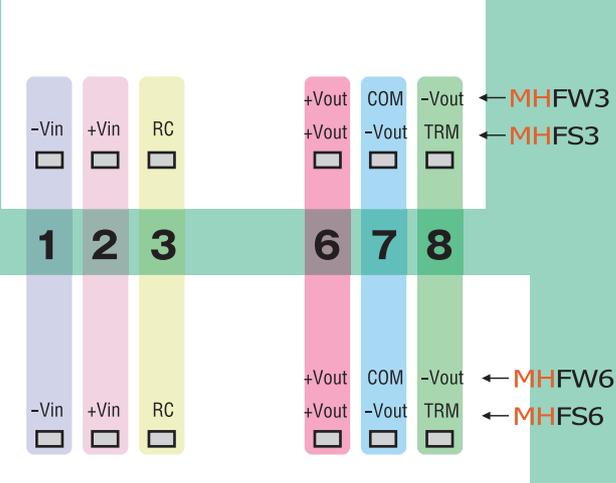
Standard Pin Assignment

Replaces each supplies easily because of Standard Pin Assignment of input and output among MHFS3/MHFW3 and MHFS6/MHFW6 models.

MHFS3
MHFW3



MHFS6
MHFW6



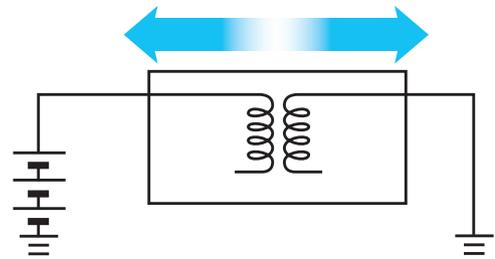
High Isolation

Fits Measurement • Test Equipment needed High Isolation.

- Improved Safety because of High Isolation between Input and Output.
- Fits applications like Measurement • Test Equipment.



Input ↔ Output
3kVAC, 4.2kVDC (1 min.)

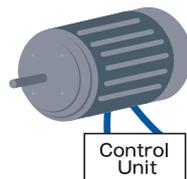


Low Insulation Capacitance / Continuous Voltage Input

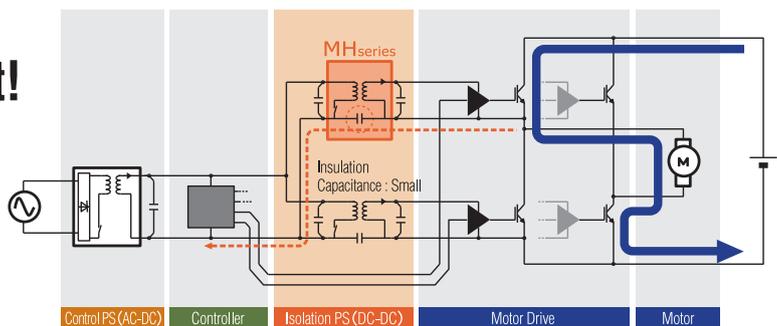
Fits Motor Drives that require high voltage between Input and Output!

- Can reduce noise transmissoins by low insulation capacitance.
- Fits equipment like Motor Drivers that require high voltage change between Input and Output because Continuous Voltage Input is available (※ 1).

※ 1 ...For details, please refer to an application manual on Cosel website. (Graph of Life expectancy)



Insulation Capacitance: **20pFmax**



Continuous Voltage Input is available
600VDC/600VAC

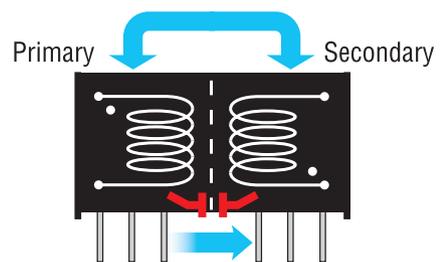
Medical Standard / Low Leak Current

Fits Portable Medical Equipment!

- Medical Safety Standard Isolation Grade (Input-Output) 2MOOP
- Low Leakage Current by Low Insulation Capacitance between Input and Output (20pF max)
- Fits Battery Equipment by wide input specification.



2MOOP (AC250V)



Low Leakage Current
(2.0μA max at 240VAC/60Hz)

| MH series | Model | Output Power | Input Voltage | | | Output Voltage / Current | | | | | | Size (W×H×D) mm [inches] (Excluding external parts) | |
|---|----------------|--------------|--------------------|------------------|-------------------|--------------------------|------|-------|-------|------|---------------|--|-------------------------------|
| | | | | | | 3.3V | 5V | 9V | 12V | 15V | ±12V (24V) | | ±15V (30V) |
|    | MHFS3 MHFW3 | 3W | 12VDC (4.5-18V) | 24VDC (9-36V) | 48VDC (18-76V) | 0.8A | 0.6A | 0.33A | 0.25A | 0.2A | 0.13A | 0.1A | 22×12×9.5 [0.87×0.48×0.38] |
| | MHFS6 MHFW6 | 6W | | | | 1.6A | 1.2A | 0.66A | 0.5A | 0.4A | 0.25A | 0.2A | |

Compact·General-use· High Isolation type DC-DC Converter MHseries

[Features]

- ▷Wide Input (4.5-18V, 9-36V, 18-76V)
- ▷Isolation between Input and Output
3kVAC, 4.2kVDC (1min.) Reinforced Insulation
- ▷Insulation Capacitance 20pF max
- ▷Over Current Protection (Auto-recovery)
- ▷Remote Control
- ▷External Adjustable of Output Voltage
(MHFS3, MHFS6)
- ▷2MOOP (250VAC)

[Safety Standards]

- ▷UL62368-1
- ▷C-UL (CAN/CSA-C22.2 No.62368-1)
- ▷EN62368-1
- ▷ANSI/AAMI ES60601-1
- ▷C-UL (CAN/CSA-C22.2 No.60601-1)
- ▷EN60601-1 3rd

SIP8

MHFS3 / MHFW3 MHFS6 / MHFW6



1 2 3 6 7 8



1 2 3 6 7 8

| Pin | MHFS3 MHFS6 | MHFW3 MHFW6 |
|-----|----------------|----------------|
| 1 | | -Vin |
| 2 | | +Vin |
| 3 | | RC |
| 6 | +Vout | +Vout |
| 7 | -Vout | COM |
| 8 | TRM | -Vout |

5-year Warranty **RoHS** **cULus** **D** **CE**

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