

The Magnetix range of pcb mount dc to dc converters offers a comprehensive range of industry recognised packages and footprints with power ratings from 0.25W to 15W. Essential elements in distributed power systems, dc to dc converters help eliminate the resistive power loss associated with centralised bus systems, by providing local power to the load. Further benefits include galvanic isolation from the main supply (reducing system noise) and better response of the supply to load transients. Magnetix offer a choice of input/output voltage combinations, together with the option of surface mount or lead through packages, single or multiple outputs and unregulated or regulated types. All Magnetix dc to dc converters use UL94V-0 flame retardant materials and provide a minimum isolation of 1kVdc (some models 6kVdc).

PRODUCT OVERVIEW



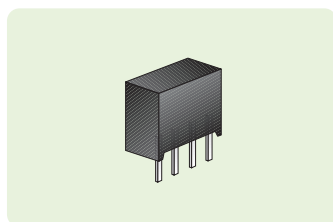
| Type | Power | Number of Outputs | Isolation Voltage | Package | Series | Page No. | |
|------------------------|-------|-------------------|-------------------|------------|-----------|----------|-----|
| Unregulated | 250mW | 1 | 1kVdc | 4 pin SIL | MLM | 492 | |
| | | | | 14 pin SMD | MTE | 493 | |
| | | 1W | 1 | 1kVdc | 4 pin SIL | MME | 494 |
| | | | | | 8 pin DIL | MME | 494 |
| | 2 | | 1kVdc | 7 pin SIL | MMV | 495 | |
| | | | | 18 pin SMD | MTA | 493 | |
| | 2W | 2 | 1kVdc | 7 pin SIL | MMA | 495 | |
| | | | | 14 pin DIL | MMA | 495 | |
| | | 2 Indep. | 1kVdc | 22 pin SMD | MTV | 493 | |
| | | | | 7 pin SIL | MMV | 496 | |
| | 2W | 1 | 1kVdc | 7 pin SIL | MMD | 495 | |
| | | | | 4 pin SIL | MML | 497 | |
| 2 | | 1kVdc | 7 pin SIL | MMH | 497 | | |
| | | | 14 pin DIL | MMH | 497 | | |
| | | | 6kVdc | 24 pin DIL | MMS | 498 | |

| Type | Power | Number of Outputs | Isolation Voltage | Package | Series | Page No. |
|----------------------|-------|-------------------|-------------------|------------|--------|----------|
| Regulated | 1W | 1 | 1kVdc | 7 pin SIL | MMF | 494 |
| | 2W | 1 | 1kVdc | 8 pin SIL | MDL | 498 |
| | 3W | 1 | 1kVdc | 24 pin DIL | MDY | 499 |
| | 5W | 1 | 1.5kVdc | 2" x 1" | MDC | 499 |
| | | 2 | 1.5kVdc | 2" x 1" | MDC | 499 |
| | 10W | 1 | 1.5kVdc | 2" x 1" | MPH10 | 500 |
| | | 2 | 1.5kVdc | 2" x 1" | MPH10 | 500 |
| | 15W | 1 | 1.5kVdc | 2" x 1" | MPH15 | 501 |
| | | 2 | 1.5kVdc | 2" x 1" | MPH15 | 501 |

N.B. A range of Schaffner DC/DC converter filters is shown on page 502.

MAGNETIX type MLM

250mW, Single Output



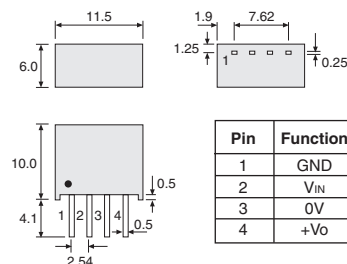
- ◆ 4 pin SIL package
- ◆ 1kV isolation
- ◆ UL94V-0
- ◆ Industry standard
- ◆ Competitively priced

Specification

Input voltage range ±10%
 Line regulation 1.2% per 1% V_{IN}
 Switching frequency 100kHz (typ.)
 Operating temperature range 0°C to +70°C

| Nominal Input (V) | Output (V) | Output Current (mA) | Load Regulation % (10% to 100% load) | Manf. Part No. & Anglia Order Code |
|-------------------|------------|---------------------|--------------------------------------|------------------------------------|
| 5 | 5 | 50 | 15 | MLM0505S |
| 5 | 12 | 21 | 10 | MLM0512S |
| 5 | 15 | 16 | 10 | MLM0515S |
| 12 | 5 | 50 | 15 | MLM1205S |
| 12 | 12 | 21 | 10 | MLM1212S |
| 12 | 15 | 16 | 10 | MLM1215S |

Dimensions (mm)



| Pin | Function |
|-----|-----------------|
| 1 | GND |
| 2 | V _{IN} |
| 3 | 0V |
| 4 | +V _O |