

MTG4-W Series, 3-4W, Regulated Single and Dual output, 4:1 Input Range

Features:

- DIP24 Package
- Industry Standard Pinout
- I/O-Isolation 1500VDC
- -40...+85°C Operating Temperature Range
- Lead free Design, RoHS compliant
- Continuous Short Circuit Protection
- Non-conductive Black Plastic Case (UL 94V-0)
- Available Outputs: 3.3, 5, 9, 12, 15, 18, 24VDC

Electrical specifications

(All specifications are typical at Ta=25°C, nominal input voltage and full load unless otherwise specified)

| Input Specifications: | |
|-----------------------|-----------|
| Voltage Range | See table |
| Filter | Pi type |

| Output Specifications: | |
|---------------------------------|--------------------------|
| Voltage Accuracy | ±1%, Max. |
| Ripple and Noise (at 20 MHz BW) | 60mVp-p max. |
| Short Circuit Protection | Continuous, auto restart |
| Line Voltage Regulation | ±0.5% max. |
| Load Voltage Regulation | ±0.5% max. |
| Temperature Coefficient | ±0.02% / °C |

| General Specifications: | |
|------------------------------------|-----------------|
| Efficiency | See table |
| Switching Frequency | 260KHz typ. |
| Reliability Calculated MTBF | > 1,121,000 hrs |
| Input/Output Isolation Voltage | 1500VDC |
| Input/Output Isolation Resistance | 1000M Ohm min. |
| Input/Output Isolation Capacitance | 390pF typ. |

| Environmental Specifications: | |
|---------------------------------|---------------------------|
| Operating Temperature (Ambient) | -40...+85°C |
| Case Temperature | +100°C, Max. |
| Storage Temperature | -40...+125°C |
| Derating | Non required |
| Humidity | Up to 95%, Non-condensing |
| Cooling | Free-air Convection |

| Physical Specifications: | |
|--|--|
| Case material | Nickel-coated Copper |
| Pin material | Brass Soldered-coated |
| Potting material | Epoxy (UL94V-0 rated) |
| Lead Soldering Temperature (1.5 mm from case, 10 sec) | +260°C |
| Weight | 17g |
| Dimensions | 31.76x20.32x10.16mm 1.25x0.8x0.4 inches |

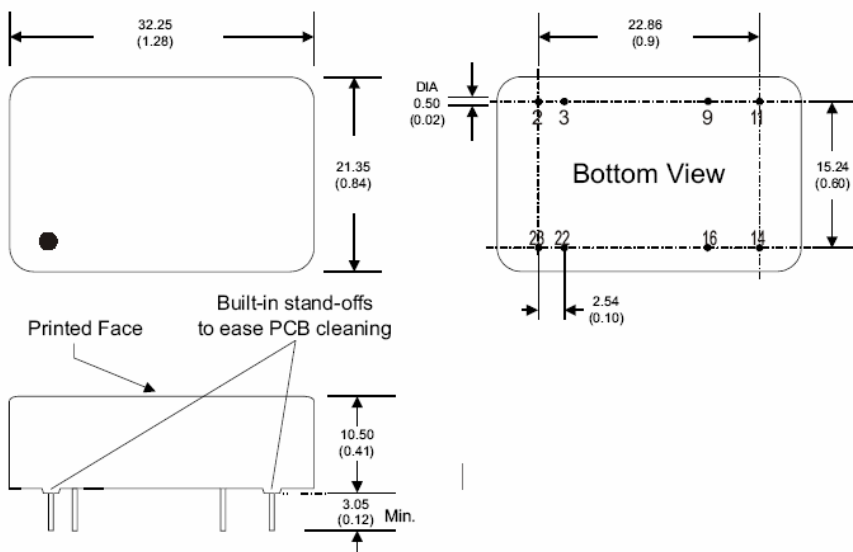
Specifications are subject to change without notice.

Model Selection Guide

| Models | Input Voltage, VDC | Input Current No Load, mA | Input Current Full Load, mA | Output Voltage, VDC | Output Current, mA | Efficiency Full Load, % typ. |
|--------------|--------------------|---------------------------|-----------------------------|---------------------|--------------------|------------------------------|
| MTG4-243.3SW | 9-36 | 16 | 165 | 3.3 | 900 | 75 |
| MTG4-2405SW | | 16 | 174 | 5 | 660 | 79 |
| MTG4-2412SW | | 18 | 207 | 12 | 330 | 80 |
| MTG4-2415SW | | 18 | 207 | 15 | 266 | 80 |
| MTG4-2405DW | | 20 | 214 | ±5 | ±400 | 78 |
| MTG4-2412DW | | 20 | 207 | ±12 | ±166 | 80 |
| MTG4-2415DW | | 23 | 207 | ±15 | ±133 | 80 |
| MTG4-483.3SW | 18-72 | 10 | 88 | 3.3 | 900 | 75 |
| MTG4-4805SW | | 10 | 88 | 5 | 660 | 78 |
| MTG4-4812SW | | 12 | 88 | 12 | 330 | 80 |
| MTG4-4815SW | | 12 | 139 | 15 | 266 | 80 |
| MTG4-4805DW | | 10 | 107 | ±5 | ±400 | 78 |
| MTG4-4812DW | | 12 | 104 | ±12 | ±166 | 80 |
| MTG4-4815DW | | 12 | 104 | ±15 | ±133 | 80 |

Note: The models are listed above are just for standard type. If you need the special specifications product, please inquire.

Outline Dimensions and Pin Connections



| Pin Connections | | |
|-----------------|--------|--------|
| Pin | Single | Dual |
| 2 | -Vin | -Vin |
| 3 | -Vin | -Vin |
| 9 | No Pin | Common |
| 11 | NC | -Vout |
| 14 | +Vout | +Vout |
| 16 | -Vout | Common |
| 22 | +Vin | +Vin |
| 23 | +Vin | +Vin |

Notes : All dimensions are typical in millimeters (inches).
Tolerance x.xx = ±0.25 (±0.01)

Temperature Derating Graph

