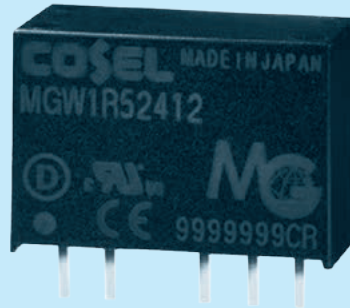


# MGW1R5

MG W 1R5 24 12 -□

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage
- ⑥ Optional

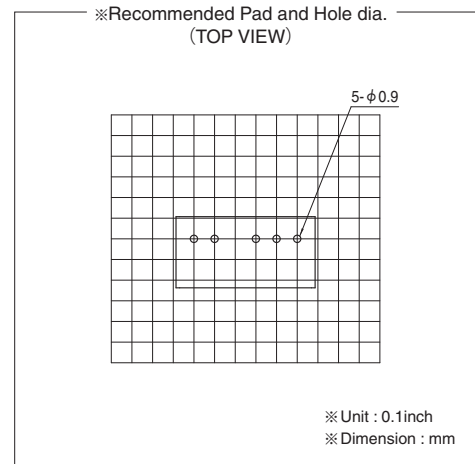
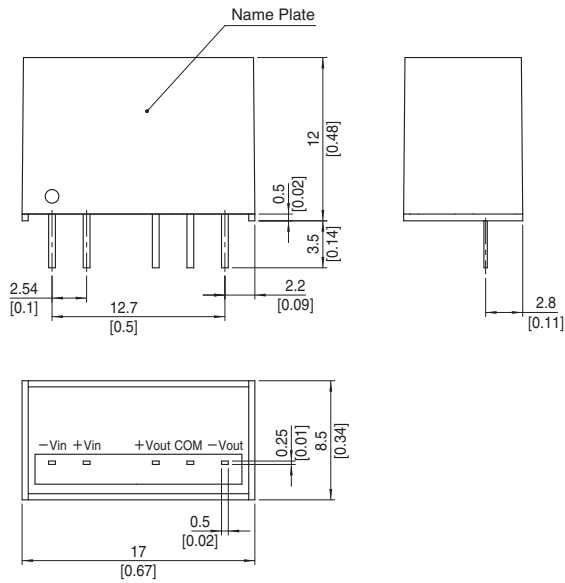
| MODEL                 | MGW1R50512    | MGW1R50515 | MGW1R51212 | MGW1R51215 | MGW1R52412 | MGW1R52415 | MGW1R54812 | MGW1R54815 |            |
|-----------------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|
| MAX OUTPUT WATTAGE[W] | 1.56          | 1.50       | 1.56       | 1.50       | 1.56       | 1.50       | 1.56       | 1.50       |            |
| DC OUTPUT             | VOLTAGE[V] *1 | ±12 or +24 | ±15 or +30 | ±12 or +24 | ±15 or +30 | ±12 or +24 | ±15 or +30 | ±12 or +24 | ±15 or +30 |
|                       | CURRENT[A]    | 0.065      | 0.05       | 0.065      | 0.05       | 0.065      | 0.05       | 0.065      | 0.05       |

## SPECIFICATIONS

|                           | MODEL                                       | MGW1R50512   | MGW1R50515    | MGW1R51212                                 | MGW1R51215    | MGW1R52412                                  | MGW1R52415    | MGW1R54812                                   | MGW1R54815 |        |
|---------------------------|---|--|---------------|--|---------------|---|---------------|--|------------|--------|
| INPUT                     | VOLTAGE[V]                                  | DC4.5 - 9<br>(Surge voltage 12.5V, 100ms max)  |               | DC9 - 18<br>(Surge voltage 25V, 100ms max) |               | DC18 - 36<br>(Surge voltage 50V, 100ms max) |               | DC36 - 76<br>(Surge voltage 100V, 100ms max) |            |        |
|                           | CURRENT[A] *2                               | 0.38typ  | 0.38typ       | 0.16typ                                    | 0.16typ       | 0.080typ                                    | 0.079typ      | 0.041typ                                     | 0.040typ   |        |
|                           | EFFICIENCY[%] *2                            | 83typ  | 81typ         | 83typ                                      | 81typ         | 82typ                                       | 80typ         | 81typ  | 80typ      |        |
| OUTPUT                    | VOLTAGE[V]                                  | ±12 or +24   | ±15 or +30    | ±12 or +24                                 | ±15 or +30    | ±12 or +24                                  | ±15 or +30    | ±12 or +24                                   | ±15 or +30 |        |
|                           | CURRENT[A]                                  | 0.065  | 0.05          | 0.065                                      | 0.05          | 0.065                                       | 0.05          | 0.065  | 0.05       |        |
|                           | LINE REGULATION[mV]                         | 60max  | 75max         | 60max                                      | 75max         | 60max                                       | 75max         | 60max  | 75max      |        |
|                           | LOAD REGULATION[mV]                         | *3   | 480max        | 600max                                     | 480max        | 600max                                      | 480max        | 600max                                       | 480max     | 600max |
|                           |   | *4   | 600max        | 750max                                     | 600max        | 750max                                      | 600max        | 750max                                       | 600max     | 750max |
|                           | RIPPLE[mVp-p] *5                            | 150max   | 150max        | 150max                                     | 150max        | 150max                                      | 150max        | 150max                                       | 150max     |        |
|                           | RIPPLE NOISE[mVp-p] *5                      | 200max   | 200max        | 200max                                     | 200max        | 200max                                      | 200max        | 200max                                       | 200max     |        |
|                           | TEMPERATURE REGULATION[mV]                  | -20 to +85°C   | 210max        | 260max                                     | 210max        | 260max                                      | 210max        | 260max                                       | 210max     | 260max |
|                           |   | -40 to +85°C   | 320max        | 390max                                     | 320max        | 390max                                      | 320max        | 390max                                       | 320max     | 390max |
|                           | DRIFT[mV] *6                                | 48max  | 60max         | 48max                                      | 60max         | 48max                                       | 60max         | 48max  | 60max      |        |
| START-UP TIME[ms]         | 30max (Minimum input, I <sub>o</sub> =100%) |  |               |  |               |   |               |  |            |        |
| OUTPUT VOLTAGE SETTING[V] | 11.64 - 12.36                               | 14.55 - 15.45  | 11.64 - 12.36 | 14.55 - 15.45                              | 11.64 - 12.36 | 14.55 - 15.45                               | 11.64 - 12.36 | 14.55 - 15.45                                |            |        |
| PROTECTION CIRCUIT        | OVERCURRENT PROTECTION                      | Works over 105% of rating and recovers automatically                                       |               |  |               |   |               |  |            |        |
| ISOLATION                 | INPUT-OUTPUT                                | DC1,500V or AC1,000V 1minute, Cutoff current=10mA, DC500V 1,000MΩ min (20±15°C)            |               |  |               |   |               |  |            |        |
| ENVIRONMENT               | OPERATING TEMP., HUMID. AND ALTITUDE        | -40 to +85°C, 20 to 95%RH (Non condensing) (Required derating), 5,000m (16,400feet) max    |               |  |               |   |               |  |            |        |
|                           | STORAGE TEMP., HUMID. AND ALTITUDE          | -40 to +100°C, 20 to 95%RH (Non condensing), 9,000m (30,000feet) max                       |               |  |               |   |               |  |            |        |
|                           | VIBRATION                                   | 10 - 55Hz 98.0m/s <sup>2</sup> (10G), 3minute period, 60minutes each along X, Y and Z axis |               |  |               |   |               |  |            |        |
|                           | IMPACT                                      | 490.3m/s <sup>2</sup> (50G) 11ms, once each along X, Y and Z axis                          |               |  |               |   |               |  |            |        |
| SAFETY                    | AGENCY APPROVALS                            | UL60950-1, C-UL, EN60950-1   |               |  |               |   |               |  |            |        |
| OTHERS                    | CASE SIZE/WEIGHT                            | 17.0 X 12.0 X 8.5mm [0.67 X 0.48 X 0.34 inches] (W X H X D) / 4g max                       |               |  |               |   |               |  |            |        |
|                           | COOLING METHOD                              | Convection/Forced air  |               |  |               |   |               |  |            |        |

\*1 Single output +24V, +30V with no use of COM.  
 \*2 Rated input 5V, 12V, 24V or 48V DC I<sub>o</sub>=100%  
 \*3 Symmetrical loading from 20% to 100%.  
 \*4 Symmetrical loading from 0% to 100%.  
 \*5 Ripple and Ripple Noise is measured by using test board with ceramic capacitor 1μF at 50mm from output pins. (20MHz Oscilloscope)  
 \*6 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25°C.  
 \* Parallel operation with other model is not possible.

## External view



- ※ Tolerance  $\pm 0.5$  [ $\pm 0.02$ ]
- ※ Dimensions in mm, [ ]= inches
- ※ Pin terminal material : Copper
- ※ Plating treatment of terminal : Lead free plating
- ※ Case material : PBT
- ※ Weight 4g max