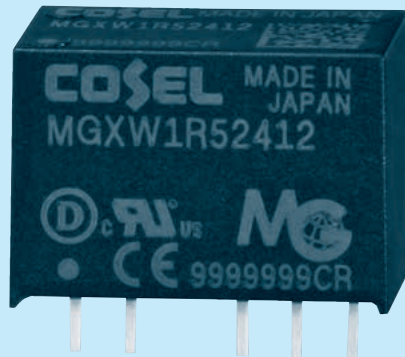


# MGXW1R5

MGX 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	MGXW1R52412	MGXW1R52415
MAX OUTPUT WATTAGE[W]	1.56	1.50
DC OUTPUT	VOLTAGE[V] *1	±12 or +24
	CURRENT[A]	0.065

## SPECIFICATIONS

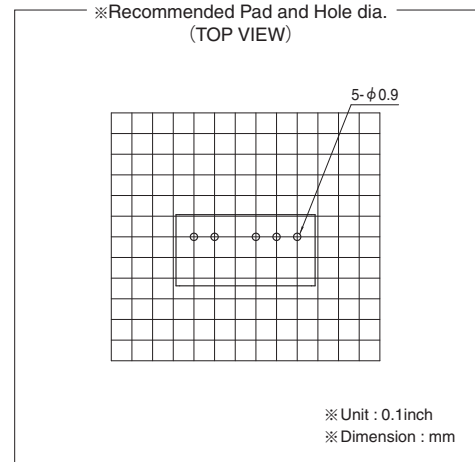
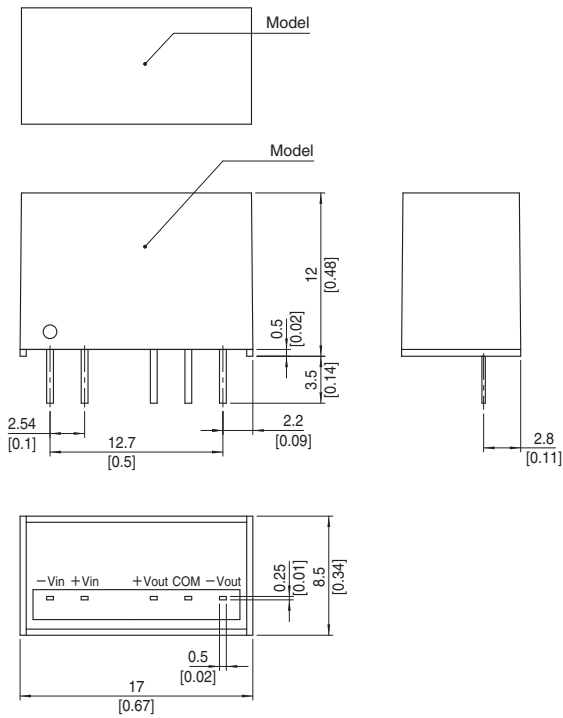
	MODEL	MGXW1R52412	MGXW1R52415	
INPUT	VOLTAGE[V]	DC6 - 60 (Surge voltage 76V, 100ms max) (Refer to the instruction manual for input voltage derating.)		
	CURRENT[A] *2	0.082typ	0.079typ	
	EFFICIENCY[%] *2	80typ	80typ	
OUTPUT	VOLTAGE[V]	±12 (+24)	±15 (+30)	
	CURRENT[A]	0.065	0.05	
	LINE REGULATION[mV]	60max	75max	
	LOAD REGULATION[mV]	*3	480max	600max
		*4	600max	750max
	RIPPLE[mVp-p] *5	150max	150max	
	RIPPLE NOISE[mVp-p] *5	200max	200max	
	TEMPERATURE REGULATION[mV]	-20 to +85°C	210max	260max
		-40 to +85°C	320max	390max
	DRIFT[mV] *6	48max	60max	
START-UP TIME[ms]	30max			
OUTPUT VOLTAGE SETTING[V]	11.64 - 12.36	14.55 - 15.45		
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically		

## GENERAL SPECIFICATIONS

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 × 12.0 × 8.5mm [0.67 × 0.48 × 0.34 inches] (W × H × D) / 4g max
	COOLING METHOD	Convection/Forced air

- \*1 Single output +24V, +30V with no use of COM.
- \*2 Rated input 24V 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

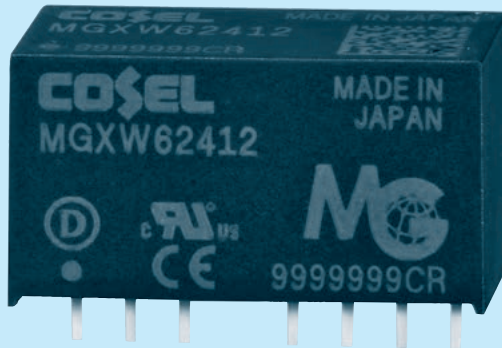


- ※ Tolerance  $\pm 0.5$  [ $\pm 0.02$ ]
- ※ Dimensions in mm, [ ]= inches
- ※ Pin terminal material : Copper
- ※ Planting treatment of terminal : Lead free plating
- ※ Case material : PBT
- ※ Weight 4g max

# MGXW6

MGX W 6 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
- Y2: Output voltage adjustable (+10%, -5%)

MODEL	MGXW62412	MGXW62415
MAX OUTPUT WATTAGE[W]	6.00	6.00
DC OUTPUT	VOLTAGE[V] *1	±12 or +24
	CURRENT[A]	0.25

## SPECIFICATIONS

	MODEL	MGXW62412	MGXW62415	
INPUT	VOLTAGE[V]	DC6 - 60 (Surge voltage 76V, 100ms max) (Refer to the instruction manual for input voltage derating.)		
	CURRENT[A] *2	0.29typ	0.29typ	
	EFFICIENCY[%] *2	87typ	87typ	
OUTPUT	VOLTAGE[V]	±12 (+24)	±15 (+30)	
	CURRENT[A]	0.25	0.2	
	LINE REGULATION[mV]	60max	75max	
	LOAD REGULATION[mV]	*3	480max	600max
		*4	600max	750max
	RIPPLE[mVp-p] *5	Po=30% -	120max	120max
		Po=0 - 30%	480max	480max
		Vin=DC48 - 60V	480max	480max
	RIPPLE NOISE[mVp-p] *5	Po=30% -	200max	200max
		Po=0 - 30%	600max	600max
		Vin=DC48 - 60V	600max	600max
	TEMPERATURE REGULATION[mV]	-20 to +75°C	190max	230max
		-40 to +75°C	300max	360max
DRIFT[mV] *6	48max	60max		
START-UP TIME[ms]	30max			
OUTPUT VOLTAGE SETTING[V]	11.64 - 12.36	14.55 - 15.45		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically		
	REMOTE ON/OFF	Provided (Negative logic L : ON, H : OFF)		

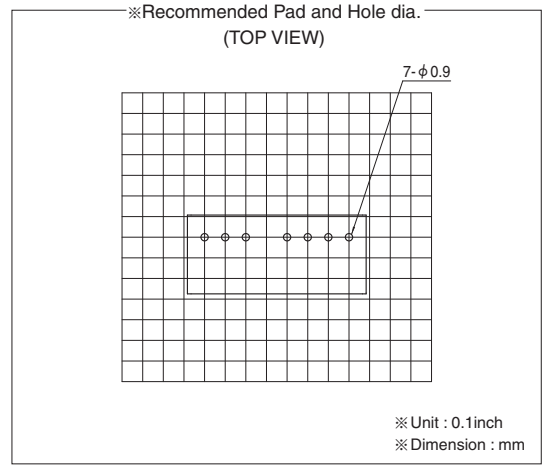
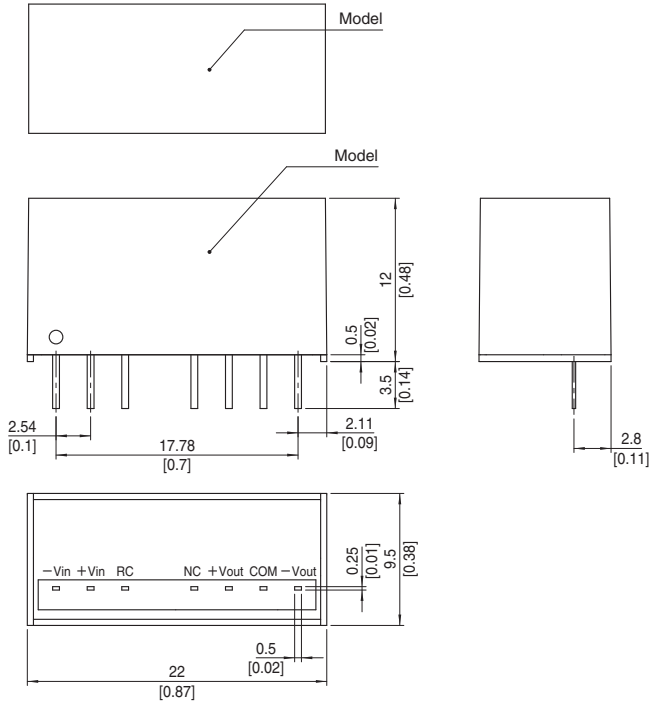
## GENERAL SPECIFICATIONS

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	22.0×12.0×9.5mm [0.87×0.48×0.38 inches] (W×H×D) / 7g max
	COOLING METHOD	Convection/Forced air

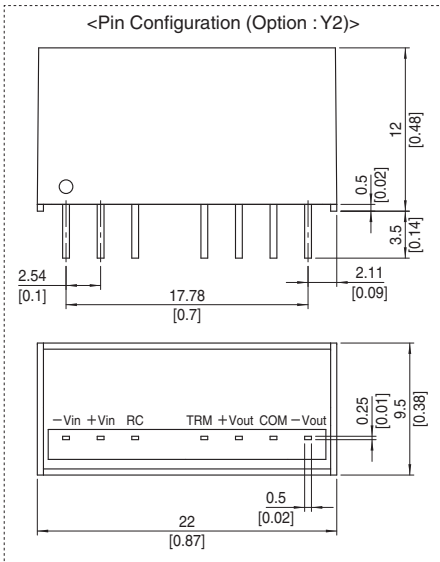
\*1 Single output +24V, +30V with no use of COM.  
 \*2 Rated input 24V DC Io=100%  
 \*3 Symmetrical loading from 20% to 100%.  
 \*4 Symmetrical loading from 0% to 100%.  
 \*5 Ripple and Ripple Noise is measured by using test board with ceramic capacitor 1μF at

\*6 50mm from output pins. (20MHz Oscilloscope). Po: Output wattage.  
 \* 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
- ※ Planting treatment of terminal : Lead free plating
- ※ Case material : PBT
- ※ Weight 7g max



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