

# MGN1S0512MC



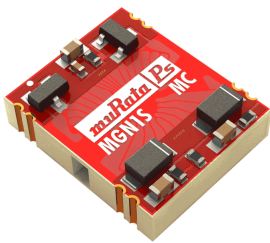
## Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	Consumer equipment, Industrial Equipment Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product.
Recommended Applications	Gate driver power supply

## Features

12V, 83.3mA, Isolated 1W Single Output 3kVAC, DC-DC Converter, 4.5-5.5V Input.

## Appearance & Shape



### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, its specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

2. This datasheet has only typical specifications because there is no space for detailed specifications.

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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## Specifications

Output power (W)Max	1W
Isolation Voltage (V)	3000Vac
Continuous Barrier Withstand Voltage(V)	1100V
Isolation capacitance(pF)	2.5pF
Vin(V)	4.5V to 5.5V
Vin(V)typ	5V
Vout(V)typ	12V
LineRegulation (%)	-1.2% to 1.2%
LoadRegulation (%)	4%
Efficiency (%)	62.5%
Size(mm)W	12.0mm
Size(mm)L	14.5mm
Size(mm)T	4.25mm
Operatingtemperature(degC)	-40°C to 105°C
Outputs (#)	1
Iout(A)Max	0.083A
Package	SMD
Productseries	MGN1

Product Series Features	The MGN1 series of DC-DC converters is ideal for powering 'high side' and 'low side' gate drive circuits for GaN in bridge circuits. A choice of output voltages allows optimum drive levels for best system efficiency. The MGN1 series is characterised for high isolation requirements commonly seen in bridge circuits used in motor drives and inverters, while the MGN1 industrial grade temperature rating and construction gives long service life and reliability.
Safety Approval	UL62368-1
Brand	Murata Power Solutions

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