

Product Search Data Sheet

MGN1S0512MC

In Production Recommended New RoHS

Applications

Unsuitable	Please be sure to read and comply with	
	1.5	
Applications	these "Precautions for use."	
	Consumer equipment, Industrial	
	Equipment	
	Please refer to Our Website and	
	specifications, etc. for information about	
Specific	the performance, functions, quality,	
Applications	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	

Note: If you have not downloaded this document from our official website, please note that the information provided may not be the most current.

Please download the latest datasheet of MGN1S0512MC from the official website of Murata

http://www.murata.com/en/products/productdetail?partno=MGN1S0512MC

Features

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

Appearance & Shape



1 of 2

Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's 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
lout(A)Max	0.083A
Package	SMD
Productseries	MGN1

	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
Product Series Features	best system efficiency. The
Product Series Features	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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