

# MYLSM00502ERPL

4.5V to 17V input voltage, 2.5A, Buck Converter with 85degC Ta

In Production

Recommended

RoHS

## 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	Processor [ASIC / FPGA / xPU],Optical Backbone network,Optical Module, Server,Storage,Switch,Industrial Equipment

## Features

- Input voltage ranges from 4.5 to 17V
- Settable output voltage from 1 to 5.25V
- Up to 2.5 Aof output current
- Quick transient response to load change
- Small package, 7.9 x 7.9 x 2.3mm
- Short Circuit protection
- Thermal protection
- Enable control

## Appearance & Shape



**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

Iout(A)Max	2.5A
Vin(V)	4.5V to 17V
Vin(V)typ	12V
Vout(V)	1V to 5.25V
Vout(V)typ	3.3V
LineRegulation (%)	-2% to 2%
LoadRegulation (%)	-2% to 2%
Outputs (#)	1
Efficiency (%)	88%
Switching frequency (kHz)	2500kHz
Size(mm)W	7.9mm
Size(mm)L	7.9mm
Size(mm)T	2.3mm
Operatingtemperature(degC)	-40°C to 85°C
Circuit topology	Buck(Step-down)
Package	SMD
Type	Modules (integrated components)
Productseries	MYLSM
Product Series Features	MYLSM series is metal enclosed single output POL (Point of Load)&nbsp; DC-DC converter
Brand	Murata

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