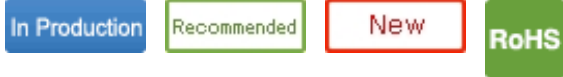


# MYMG5R012ELA5RN

7.5V to 15V input voltage, 12A, Buck Converter with PMBus and 125degC Tj



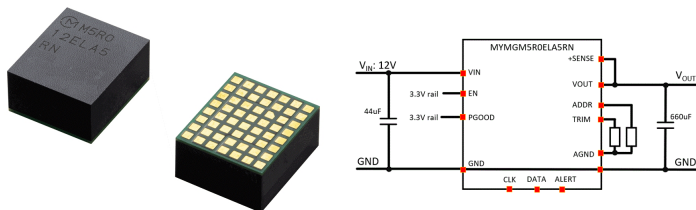
## Applications

|                          |  |
|--------------------------|--|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."  |
| Specific Applications    | Consumer equipment, Industrial Equipment<br>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, Base Station, Industrial Equipment   |

## Features

Input voltage ranges from 7.5 to 15V  
Settable output voltage from 1.8 to 5V  
Up to 12A of output current  
Quick response to load change  
Size 10.5 x 9.0 x 5.0mm  
High efficiency of 95.7% (max.)  
Over Current (OC) / Voltage (OV), Under Voltage (UV) protection and Over Temperature protection (OT)  
ON/OFF control (Positive logic)  
Power Good (PGOOD) signal  
PMBus interface available

## 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.

# MYMGM5R012ELA5RN



## Specifications

|                            |  |
|----------------------------|--|
| Iout(A)Max                 | 12A  |
| Vin(V)                     | 7.5V to 15V  |
| Vin(V)typ                  | 12V  |
| Vout(V)                    | 1.8V to 5V   |
| Vout(V)typ                 | 5V   |
| LineRegulation (%)         | -0.5% to 0.5%  |
| LoadRegulation (%)         | -0.5% to 0.5%  |
| Outputs (#)                | 1  |
| Efficiency (%)             | 95.7%  |
| Switching frequency (kHz)  | 800kHz   |
| Size(mm)W                  | 9.0mm  |
| Size(mm)L                  | 10.5mm   |
| Size(mm)T                  | 5.0mm  |
| Operatingtemperature(degC) | -40°C to 105°C   |
| Circuit topology           | Buck(Step-down)  |
| Package                    | SMD  |
| Type                       | Modules (integrated components)  |
| Productseries              | MYMGM  |
| Product Series Features    | MYMGM series which is POL (Point of Load)&nbsp; is single output MonoBK with PMBus |
| Brand                      | Murata   |

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