

# MYMGC1R83BFPF2RV

3.3V to 5.5V input voltage, Quad Fixed output volage up to 3.2A, Buck Converter with I2C interface and 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<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 3.3 to 5.5V  
Fixed 4 outputs voltage, 0.85V,0.85V,1.2V and 1.8V  
Quick transient response to load change  
Small package, 11.9×15×2.4mm  
Over current protection  
Thermal Protection  
Enable control  
Power Good signal  
I2C function  
High Reliability / Heat Shock Testing, 700cycle (-40 to +125degC)

## 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                 | 3.2A   |
| Vin(V)                     | 3.3V to 5.5V   |
| Vin(V)typ                  | 5V   |
| Vout(V)                    | 0.85V  |
| Vout(V)typ                 | 0.85V  |
| LineRegulation (%)         | -1% to 1%  |
| LoadRegulation (%)         | -1% to 1%  |
| Outputs (#)                | 4  |
| Efficiency (%)             | 82%  |
| Switching frequency (kHz)  | 2000kHz  |
| Size(mm)W                  | 11.9mm   |
| Size(mm)L                  | 15.0mm   |
| Size(mm)T                  | 2.4mm  |
| Operatingtemperature(degC) | -40°C to 85°C  |
| Circuit topology           | Buck(Step-down)  |
| Package                    | SMD  |
| Type                       | Modules (integrated components)  |
| Productseries              | MYMGC  |
| Product Series Features    | MYMGC series which is POL (Point of Load)&nbsp; is multiple output MonoBK with I2C interface |
| Iout2(A)Max                | 0.5A   |
| Vout2 (V)                  | 0.85V  |
| Vout2 (V)typ               | 0.85V  |

|                     |           |
|---------------------|-----------|
| LineRegulation2 (%) | -1% to 1% |
| LoadRegulation2 (%) | -1% to 1% |
| Iout3(A)Max         | 0.5A      |
| Vout3 (V)           | 1.2V      |
| Vout3 (V)typ        | 1.2V      |
| LineRegulation3 (%) | -1% to 1% |
| LoadRegulation3 (%) | -1% to 1% |
| Iout4(A)Max         | 1.5A      |
| Vout4 (V)           | 1.8V      |
| Vout4 (V)typ        | 1.8V      |
| LineRegulation4 (%) | -1% to 1% |
| LoadRegulation4 (%) | -1% to 1% |
| Brand               | Murata    |

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