

Note: This datasheet may be out of date. Please download the latest datasheet of MYMGK1R812ERSR-H from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-us/products/productdetail?partno=MYMGK1R812ERSR-H

# MYMGK1R812ERSR-H

### 8V to 15V input voltage, 12A, Buck Converter with 105degC Ta

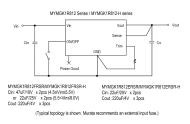


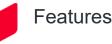


| Unsuitable   | Please be sure to read and comply with     |
|--------------|--|
| Applications | these "Precautions for use."               |
|              | Consumer equipment,Industrial              |
|              | Equipment                                  |
|              | Please refer to 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.                                   |
|              | Processor [ASIC / FPGA / xPU],Optical      |
| Recommended  | Backbone network,Optical Module,           |
| Applications | Server,Storage,Switch,Base Station,        |
|              | Industrial Equipment                       |

## Appearance & Shape







Input voltage ranges from 8 to 15V Settable output voltage from 0.7 to 1.8V Up to 12 Aof output current Quick transient response to load change Small package, 9 x 10.5 x 5.6mm Over current protection Thermal protection Enable control Power Good signal High Reliability / Heat Shock Testing, 700cycle (-40 to +125degC) Meets CISPR 22 class B conducted emission

### 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

| lout(A)Max                 | 12A   |
|----------------------------|---|
| Vin(V)                     | 8V to 15V   |
| Vin(V)typ                  | 12V   |
| Vout(V)                    | 0.7V to 1.8V  |
| Vout(V)typ                 | 1V  |
| LineRegulation (%)         | -3% to 3%   |
| LoadRegulation (%)         | -1% to 1%   |
| Outputs (#)                | 1   |
| Efficiency (%)             | 90.4%   |
| Switching frequency (kHz)  | 500kHz  |
| Size(mm)W                  | 9.0mm   |
| Size(mm)L                  | 10.5mm  |
| Size(mm)T                  | 5.6mm   |
| Operatingtemperature(degC) | -40°C to 105°C  |
| Circuit topology           | Buck(Step-down)   |
| Package                    | SMD   |
| Туре                       | Modules (integrated components)   |
| Productseries              | MYMGK   |
| Product Series Features    | MYMGK series which is POL<br>(Point of Load)  is single<br>output MonoBK. |
| Brand                      | Murata  |

2 of 2

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