

# MYMGK1R820ERSR-H

8V to 15V input voltage, 20A, Buck Converter with 105degC Ta



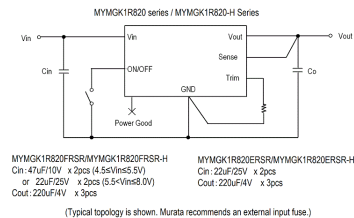
## Applications

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, Base Station, Industrial Equipment

## Features

Input voltage ranges from 8 to 15V  
Settable output voltage from 0.7 to 1.8V  
Up to 20 A of 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

## 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.

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## Specifications

Iout(A)Max	20A
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 (%)	87.8%
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
Type	Modules (integrated components)
Productseries	MYMGK
Product Series Features	MYMGK series which is POL (Point of Load)&nbsp; is single output MonoBK.
Brand	Murata

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