Note: This datasheet may be out of date.

Please download the latest datasheet of MYMGK1R812ERSR from the official website of Murata Manufacturing Co., Ltd.

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

MYMGK1R812ERSR

8V to 15V input voltage, 12A, Buck Converter with 85degC Ta









Applications

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	



Features

Input voltage ranges from 8 to 15V

Settable output voltage from 0.7 to 1.8V

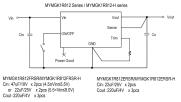
Up to 12 Aof output current
Quick transient response to load change
Small package, 9 x 10.5 x 5.6mm

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



Appearance & Shape





(Typical topology is shown. Murata recommends an external input fuse.)

1 of 2

Attentior

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.

 $2. This \ data{sheet has only typical specifications because there is no \ space for \ detailed \ specifications.}$

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.





Product Search Data Sheet

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MYMGK1R812ERSR



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 85°C
Circuit topology	Buck(Step-down)
Package	SMD
Туре	Modules (integrated components)
Productseries	MYMGK
Product Series Features	MYMGK series which is POL (Point of Load) is single output MonoBK.
Brand	Murata

2 of 2

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