

# MYSGK02506BRSR

9.6V to 42V input voltage, 6A, Buck Converter with 85degC Ta

In Production

Recommended

RoHS

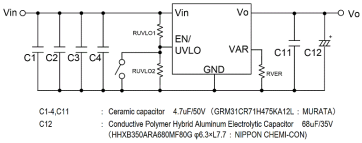
## Applications

Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	Consumer equipment,Industrial Equipment 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	Industrial Equipment

## Features

- Input voltage ranges from 9.6 to 42V
- Absolute maximum input voltage: 50V
- Settable output voltage from 5 to 25V
- Up to 6 A of output current
- Small package, 14.7 x 16.3 x 7.5mm
- Short Circuit protection, Non-latching
- Enable control
- Settable UVLO

## 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.

# MYSGK02506BRSR



## Specifications

Iout(A)Max	6A
Vin(V)	9.6V to 42V
Vin(V)typ	24V
Vout(V)	5V to 25V
Vout(V)typ	12V
LineRegulation (%)	-2% to 2%
LoadRegulation (%)	-2% to 2%
Outputs (#)	1
Efficiency (%)	98%
Switching frequency (kHz)	380kHz
Size(mm)W	14.7mm
Size(mm)L	16.3mm
Size(mm)T	7.5mm
Operatingtemperature(degC)	-40°C to 85°C
Circuit topology	Buck(Step-down)
Package	SMD
Type	Modules (integrated components)
Productseries	MYSGK
Product Series Features	MYSGK series which is POL (Point of Load)&nbsp; is single output MonoBK.
Brand	Murata

### 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.