

## Excellent Integrated System Limited

Stocking Distributor

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[Rohm Semiconductor](#)

[BH6178GUL-E2](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



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ICs
EEPROMs
Clock Generators
Voltage Detector ICs
Motor Drivers
<b>Power Management ICs</b>
78 Series Regulators
LDO Regulators
CMOS LDO Regulators Series for Portable Equipments
Single-chip Type with built-in FET
Large Current External FET Controller Type
For PCs and Digital Consumer Products
For Mobile Phone
High-performance Regulator IC Series for PCs
System Power Supply ICs for CCD Cameras in Mobile Phones
System Power Supply for TV Series
Power Supply IC Series for TFT-LCD Panels
System Power Supply ICs for Blu-ray Drives
For Digital Still Cameras and Digital Video Cameras Regulator IC Series
System Power Supply ICs for Automotive Camera Modules
Power Management IC Series for Automotive Body Control
Charge protection IC Series with Built-in FET
LED / LCD Drivers
Sensor ICs
Operational Amplifiers / Comparators
Analog Switches / Logics ICs
D/A Converter Series for Electronic Adjustments
IT Equipment / Interface ICs
Video and Imaging ICs
Audio ICs
Discrete Semiconductors
Opto Electronics

## High-efficiency Power Management IC

### BH6178GUL **NEW**

Inquiries concerning our products



Data Sheet

**Package**

**RoHS**

Quality and reliability information

Application notes

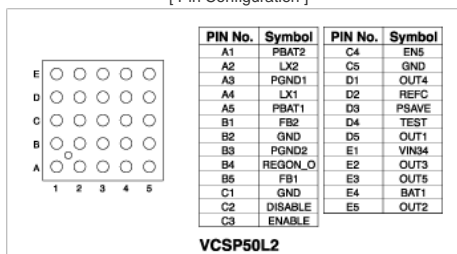
Design Model

[ Product description ]

A step-down DC/DC and a 5-channel LDO are built into a single chip and encapsulated in a compact CSP package, providing all of the voltages required in order to enable easy configuration of an application CPU power supply, while contributing to end-product miniaturization.

Specifications			
supply voltage (V)		2.7 to 4.5	
CH	DCDC (ch)	2	
	LDO (ch)	5	
Output voltage	DCDC (V)	1.8 / 1.235	
	LDO (V)	1.8/1.8/1.215/1.2/2.7	
Number of output voltage STEP		-	
Maximum output current	DCDC (mA)	650	
	LDO (mA)	50	
I/F		I <sup>2</sup> C + Parallel	
Protection circuit	Over current	Yes	
	Temperature	Yes	
	Low voltage	Yes	
Low Power Mode		Yes	
Package size(mm)		2.8x2.8x0.55	

[ Pin Configuration ]



### Features

- Built-in 2ch DC/DC converters, I<sub>max</sub>=400mA, 650mA
- Built-in 5ch LDO regulators
- Built-in LDO regulators and DC/DC converters with power save mode

\*The contents described here are just outline for introduction.  
Please obtain the specification sheets from us for thorough check before use.

### Status Product

Part No.	Package (PDF)	Status *	RoHS	Constitution materials list	Packing Type	Unit Quantity	Minimum Packaging Quantity	Samples	Sales
BH6178GUL-E2	VCSP50L2(BH6178GUL)	Active	Yes		Embossed Tape And Reel	3000	3000	<a href="#">Purchase</a>	<a href="#">Inquiry</a>

\* Active: Production or current type Preview: Development

### Others

Please check the details on [Product List](#) for Others.



Passive Components

Modules  
(Sub Systems)



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