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- Power Management ICs**
- 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
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## High-efficiency Power Management IC

### BH6178GUL **NEW**

Inquiries concerning our products

- Data Sheets
- Uses
- ROHM Internet Direct Shopping
- Approach to Quality
- RoHS directive compliance
- Contact us

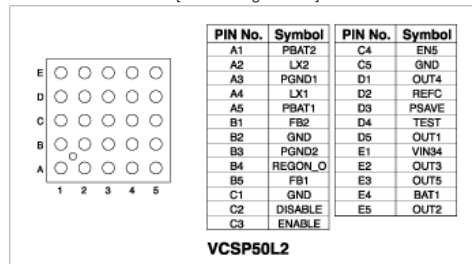
Data Sheet					
<table border="1"> <tr> <td><b>Package</b></td> <td><b>RoHS</b></td> <td>Quality and reliability information</td> <td>Application notes</td> <td>Design Model</td> </tr> </table>	<b>Package</b>	<b>RoHS</b>	Quality and reliability information	Application notes	Design Model
<b>Package</b>	<b>RoHS</b>	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>omax</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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