



JOULWATT SELECTION GUIDE

选型手册



2022
Q4

Automotive Power Supply ICs

10S and 16S BMS AFE

Multi-phase Controller and DrMOS

12A/16A/20A Buck Converter

40V/60V/100V Buck Converter

100V Buck Controller

Buck-boost Controller

15A Boost Converter

120V HB FET Driver

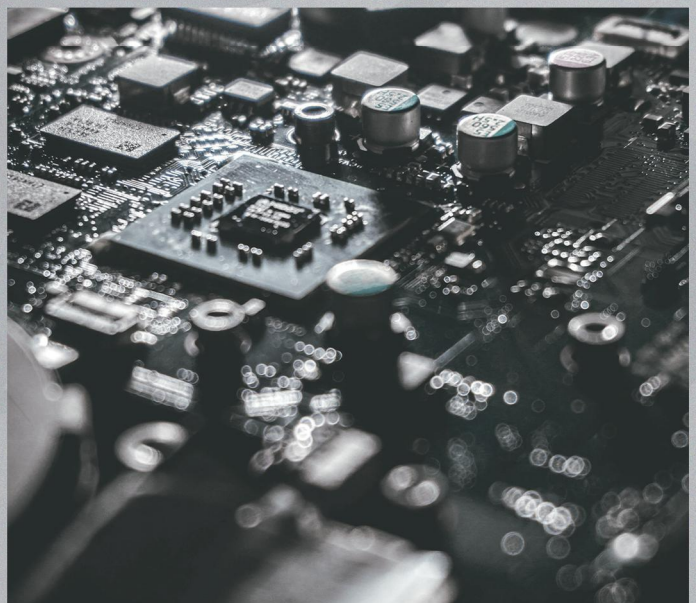
100V High-side Hotswap&Protection Controller

IEEE 802.3bt 8CH PSE Controller

ACF and AHB Flyback High-efficiency Controller

High-freq Synchronous Rectifier

USB PD/UFCV Controller



杰华特微电子股份有限公司
JoulWatt Technology Co.,Ltd.

COMPANY PROFILE



杰华特微电子成立于2013年，是一家快速成长的高性能模拟和数模混合半导体供应商。自成立以来，公司始终致力于提供高集成度、高性能与高可靠性的电源管理和信号链等芯片产品，为客户提供一站式采购服务。目前，公司拥有广泛的产品组合，涵盖DCDC、ACDC、线性电源、电池管理等产品线，应用范围涉及计算机、通讯、工业控制、服务器与数据中心、汽车电子、家用电器、消费类电子、照明等众多领域。

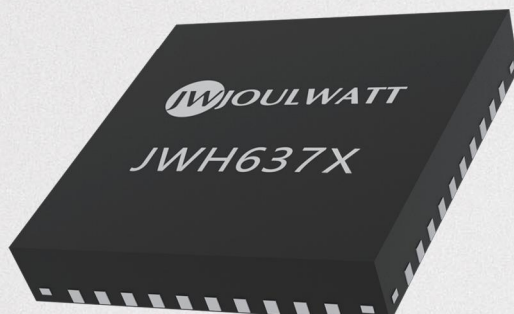
Founded in 2013, JoulWatt is a fast growing supplier of high performance analog, and mixed digital-analog chips. Since its establishment, the company has always been committed to providing high efficiency, high performance and high reliability power management, signal chain and other chips, offering customers with one-stop purchasing service. The company currently provides a broad product portfolio, including DC/DC, AC/DC, linear power, battery management and other product lines. The related applications cover computers, industrial control, communications, servers and data centers, automotive electronics, household appliances, consumer electronics, lighting, and many other fields.

高性能模拟和数模混合芯片 High performance analog and mixed digital-analog chip

Cutting-edge BCD Process for Power ICs
Advanced IC and Package Design
High Efficiency Power Structure

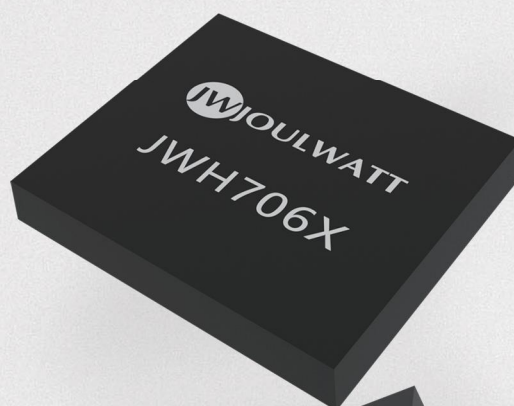
Multi-phase Controller 多相控制器

8相控制器 送样
12相控制器 开发中
支持PMBus/I2C
支持VR13.HC/14调压协议
Intel CFP 5*5 & 6*6



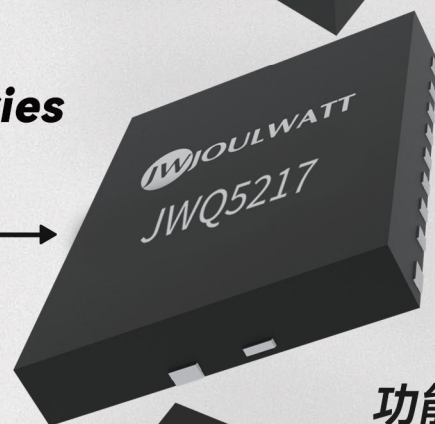
DrMOS 智能功率级

60A 量产
70A 小批量
90A 开发中
Intel CFP 5*6 & 4*6



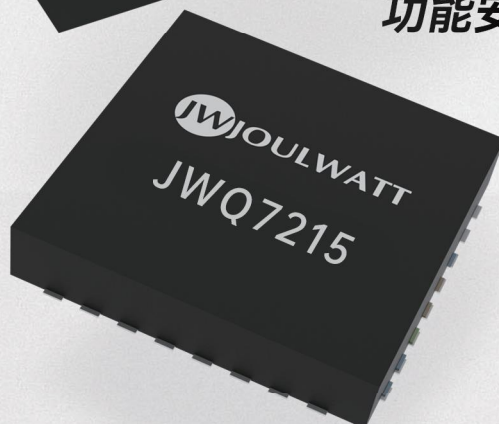
AEC-Q100 G1 Automotive Series 汽车级芯片

5V Buck 量产
60V Buck 量产
5V LDO 量产
40V Buck 送样
高压LDO 即将推出



ISO26262 ASIL D Series 功能安全D等级汽车级芯片

ASIL D Buckboost 测试中
ASIL D eFuse 测试中
ASIL D 电机驱动芯片 开发中



High Efficiency ACDC Solution for GaN

高效率氮化镓ACDC解决方案

ACF Flyback Controller 有源钳位反激控制器 量产

AHB Flyback Controller 不对称半桥反激控制器 量产

QR Flyback Controller 准谐振反激控制器 量产

HF SR Controller 高频同步整流控制器 量产

更多领先产品开发中

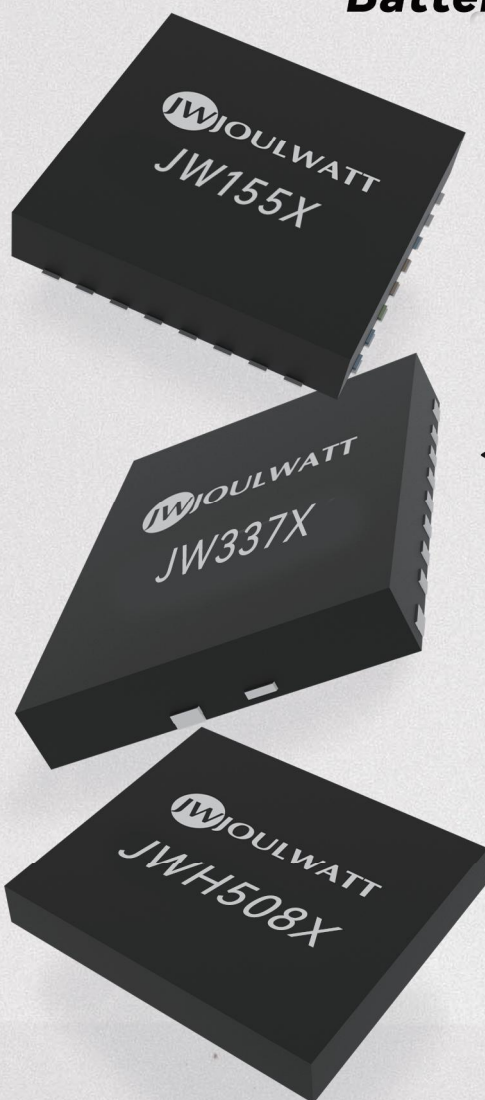
Battery Management IC

BMS芯片

14串AFE 量产

10串AFE 量产

汽车级AFE 开发中



PoL Converter

降压Buck变换器

6A/12A/20A 大批量发货

更多领先产品 开发中

兼容市场上通用的主流产品

More others

更多其它产品

IEEE 802.3 bt PSE Controller 小批量

1A/2A/3A 超低噪声LDO 送样

时钟类产品 送样

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汽车电子

MOSFET Driver

Load Switch

Smart Switch

LED Driver

Motor Driver

eFuse

DCDC

LDO

JWQ5103

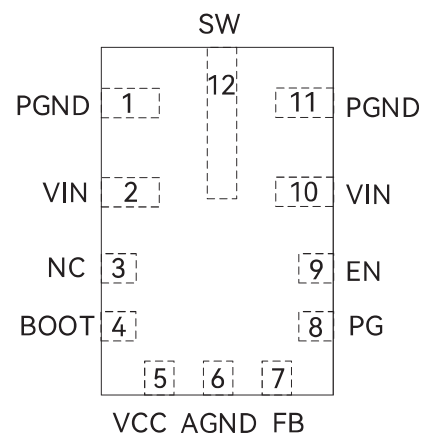
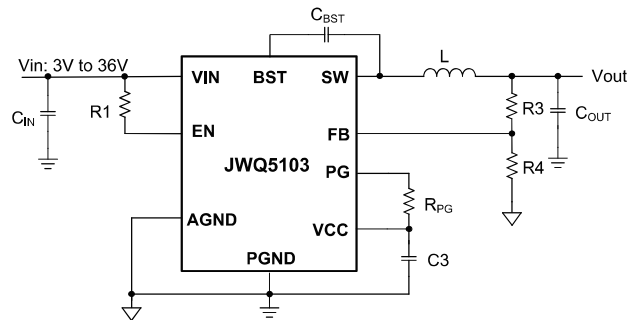
3A 40V DCDC

Key Features

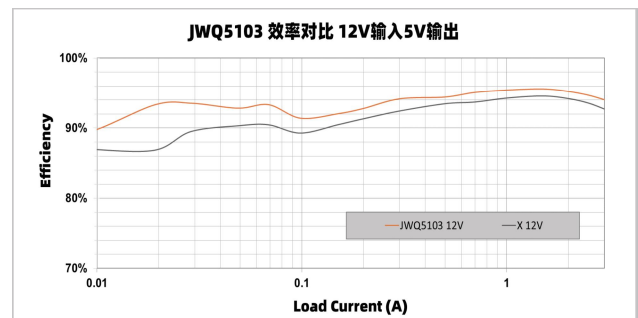
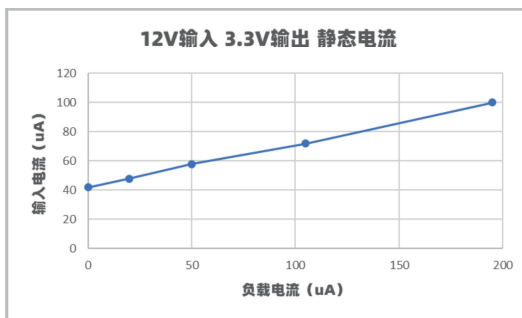
- AEC-Q100 Grade 1 Qualified
- Maximum Output Current : 3A
- Peak Current Mode Control
- **Integrated 75mohm Switch and 55mohm Synchronous Rectifier**
- **Low Quiescent Current : 30uA**
- Selectable PSM/FCCM at Light Load
- **Built-In Spread-Spectrum Frequency Modulation for Low EMI**
- **Low Dropout Mode**
- $0.8V \pm 1.5\%$ Reference Accuracy
- Available in ESOP8 and QFN Package

Application

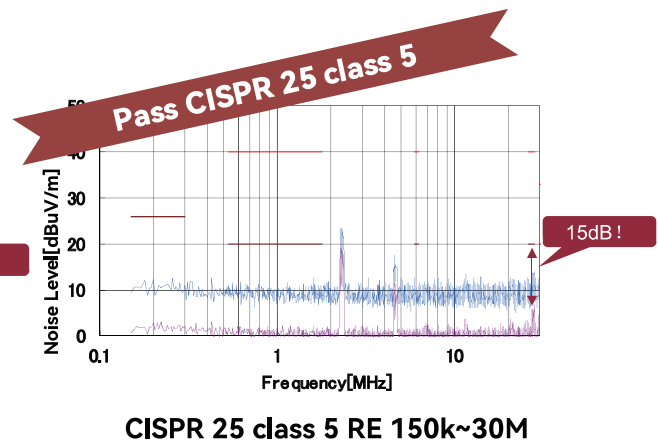
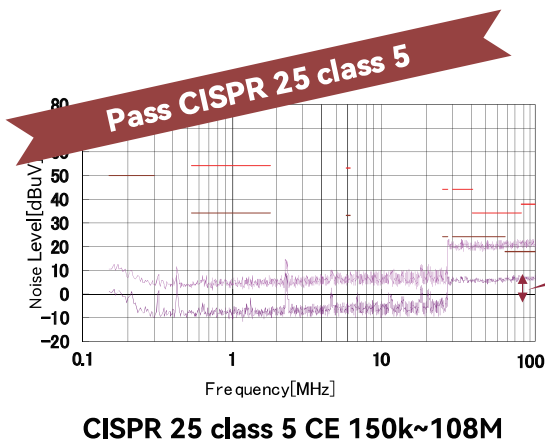
- Infotainment
- Cluster
- Camera
- Tbox



低静态电流和高效率



低EMI传导和辐射发射



JWQ5217

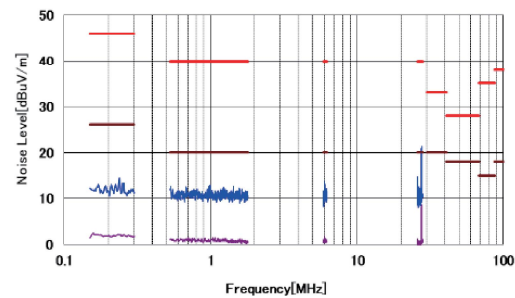
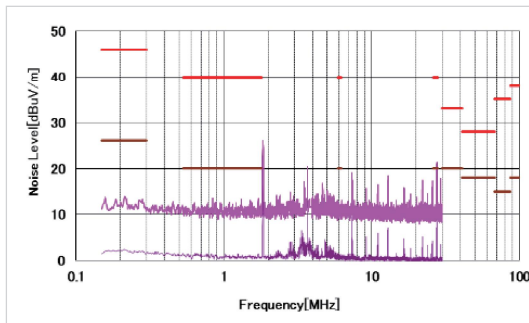
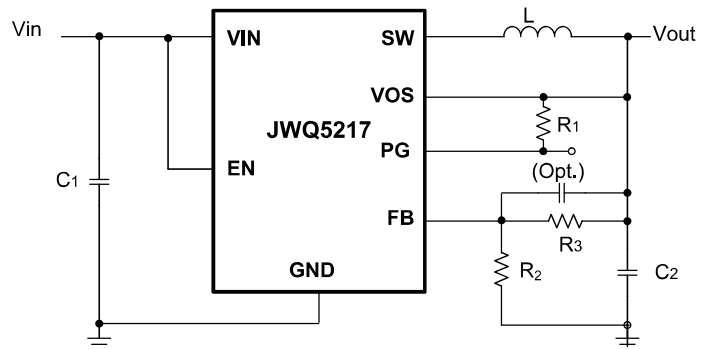
2A 5.5V Buck Converter

Features

- AEC-Q100 Grade 1 Qualified
- 2.5V to 5.5V Operating Input Range
- Up to 2A Output Current
- 0.5V to VIN Adjustable Output Voltage
- 2MHz Switching Frequency
- 100% Duty Cycle for Lowest Dropout

Application

- Infotainment
- Cluster
- Camera



JWQ7821

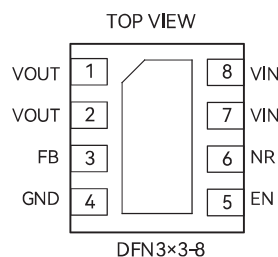
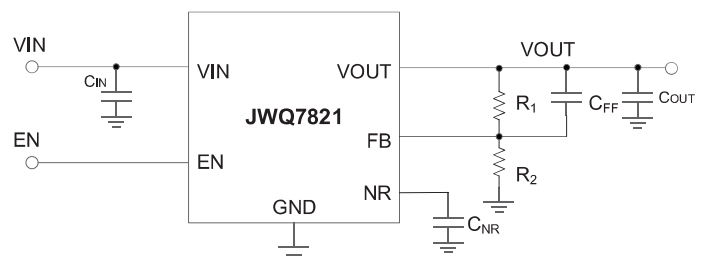
1A 5.5V Low Noise LDO

Features

- AEC-Q100 Grade1 Qualified
- Input Voltage Range 2.2–5.5V
- Output Current Max 1A
- Adjustable Output Voltage 0.8–5V with $\pm 2\%$ Accuracy
- Quiescent Current 2.5uA @ EN low
- Dropout Voltage Max 170mV@ 1A
- Stable with Output Capacitor >1uF
- Low Noise Capability 23.5uVRMS
- PSRR 80dB@100Hz
- Protection
 - Over Current Limit
 - Over Temperature Protection

Application

- ADAS
- Infotainment and Cluster
- Telematics



JWQ7924

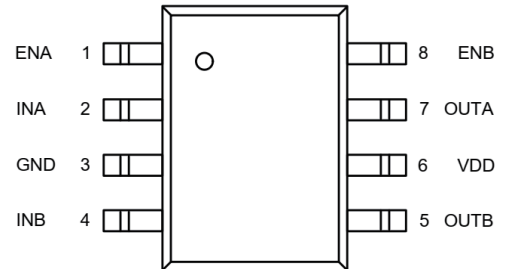
MOSFET Driver

Features

- Two Independent Gate-drive Channels
- 4.5A Peak Source and Sink-drive Current
- TTL and CMOS Compatible Logic Threshold Independent of Supply Voltage
- Hysteretic-logic Thresholds for High Noise Immunity
- 4.5V to 18V Single-supply Range
- Fast Propagation Delays (13ns Typical)
- Fast Rise and Fall Times (7ns and 6ns Typical)
- 0.5ns Typical Delay Matching between Two Channels
- Two Outputs are in Parallel for Higher Drive Current
- ESOP-8 and SOP-8 Package
- Operating Temperature Range of -40°C to 140°C

Application

- Infotainment
- Cluster
- Camera



SOP-8



OBC

储能和新能源

MOSFET Driver

Isolated Power

AFE

DCDC

JWH3515

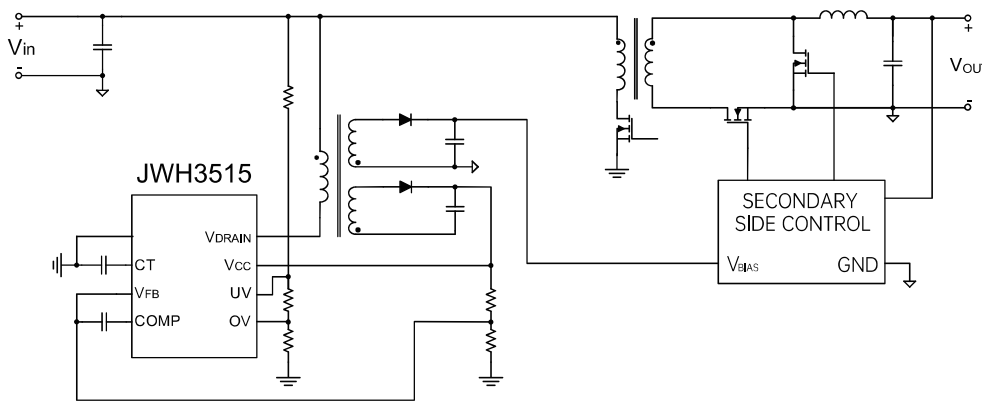
Integrated DC-DC Converter-Power

Key Features

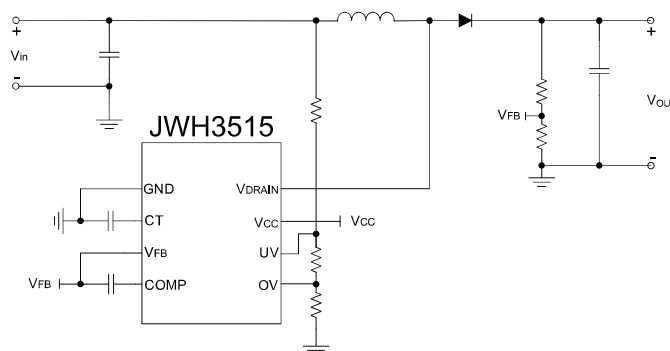
- **Flyback and Boost Configuration**
- Up to 1 MHz Frequency
- **$\pm 2\%$ Internal Reference Over Temp Range**
- External Frequency Synchronization Capability
- **Internal Error Amplifier**
- Frequency Fold-down Under Fault Conditions
- Line Undervoltage and Overvoltage Detectors
- Cycle by Cycle Current Limit
- Overtemperature Protection
- Available in SOP-8/MSOP-8/DFN4X4-8 Package

Application

- PoE (Power over Ethernet)/PD
- Secondary Side Bias Supply
- Stand-alone Low Power DC-DC Converter
- Low Power Bias Supply
- Low Power Boost Converter



6W Isolation Flyback DC/DC



High Voltage Boost

JWH3530

Active Clamp PWM Controller

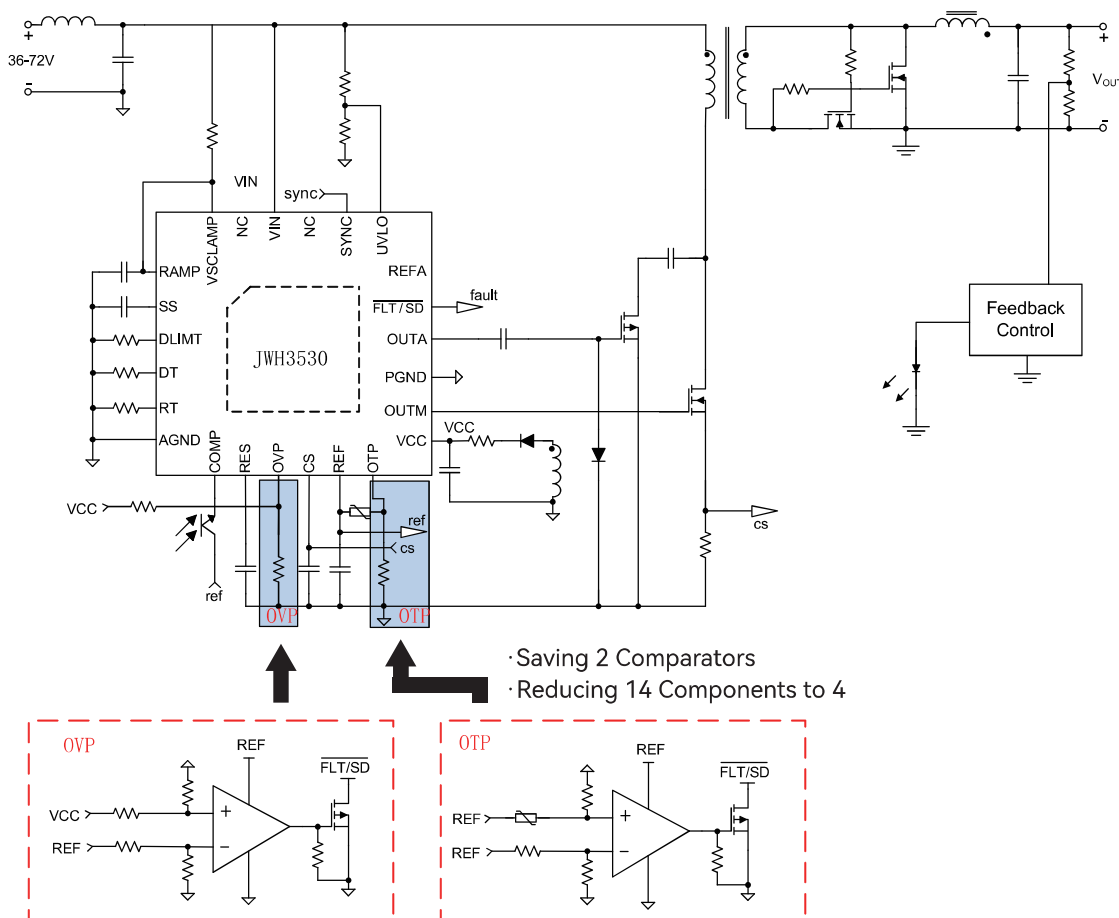
Key Features

- **Integrated 120V High Voltage Startup Circuit with Self-Supply Operation**
- Programmable Soft-Start
- **Programmable Oscillator with a 1 MHz Maximum Frequency and Synchronization Capability**
- Line Under Voltage Lockout (UVLO) with Adjustable Hysteresis
- **OCP / SCP / External OTP / Over Voltage Protection through a Dedicated Pin**
- Cycle by Cycle Peak Current Limiting
- FLT/SD pin Used for Fault Reporting and Shutdown

Application

- Server Power Supplies
- High-Efficiency Isolated DC-DC Converters
- 24V and 48 V Telecom Systems
- Automotive Applications

50~300W Isolation DC/DC



JWH7911

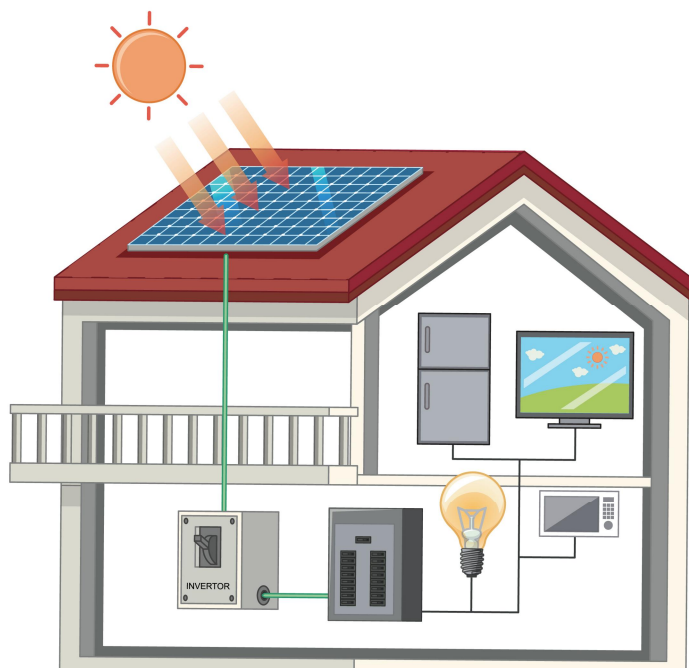
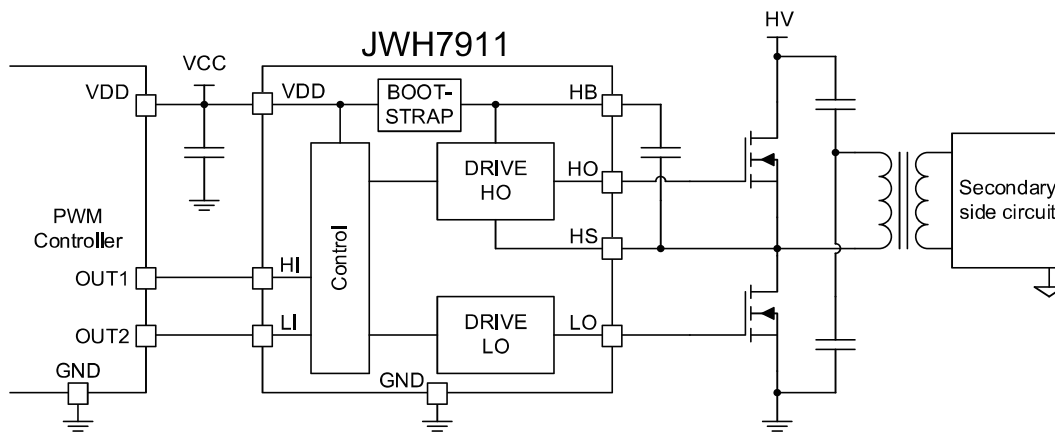
Half-Bridge MOSFET Gate Driver

Key Features

- Drives 2 N-MOSFETs in HS and LS Configuration
- **Maximum Boot Voltage 120V**
- 4A Sink, 4A Source Output Current
- **HI/LI Tolerate: -10V to 20V (Independent of VDD)**
- **HS Operating Voltage: -VDD to 115V (Repetitive pulse < 40ns in Operation)**
- **HI/LI Deglitch Time: 14ns**
- VDD Operating Range: 8V to 15V
- 42ns Propagation Delay and 4ns Delay Match
- Specified from -40°C to 140°C
- Available in DFN4X4-8 and SOP-8 Package

Application

- Power Supply for Telecom, Datacom, and Merchant
- Half-Bridge and Full-Bridge Converters
- High Voltage Synchronous-Buck Converters
- Two-Switch Forward Converters
- Active-Clamp Forward Converters



JW3370/6

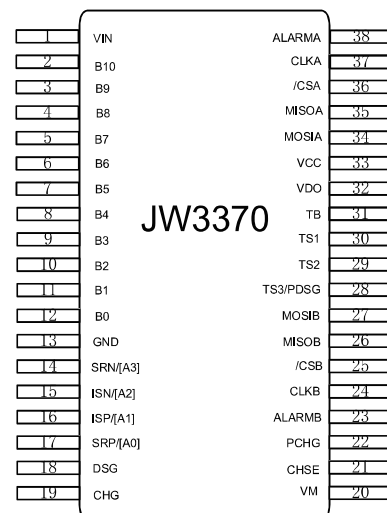
4~10/11~16 Cells AFE Battery Monitor

Key Features

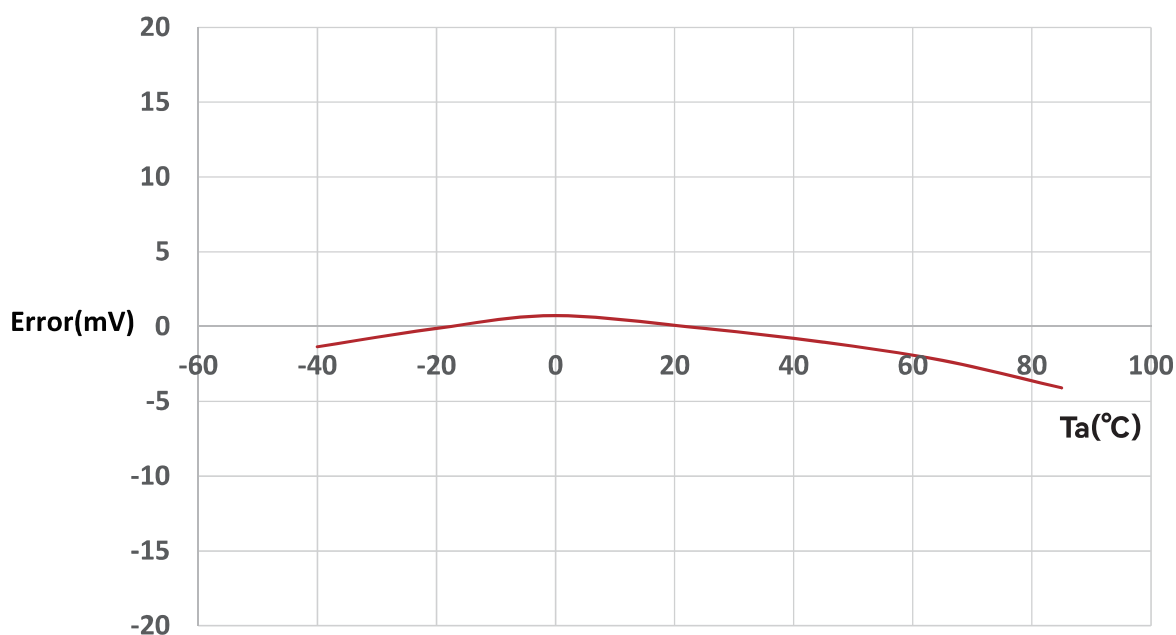
- Monitor up to 10/16 Cells in Series
- **14-BIT High Accuracy $\Delta\Sigma$ ADC Samples Battery Voltage and Temperature.**
- **16-BIT High Accuracy $\Delta\Sigma$ ADC Senses Charge/Discharge Current.**
- Support Passive Cell Balance
- Reliable SPI Communication and Support Cascade
- Comprehensive Protection
- 3.3V LDO Output for External MCU
- Open Wire Connection Detection
- Low Current Consumption

Application

- Electric Bicycles, Motorcycles.
- Backup Battery Systems
- Hybrid Electric Vehicle



VADC Max Error @ Single Cell=1~4.5V



服务器和个人电脑

多相控制器

DrMOS

PoL

Load Switch

Hotswap

JWH6374

Dual-Loop, Multi-Phase Controller with PMBus Interface

Key Features

- Rail A up to 8-phase, Rail B up to 4-phase
- PMBus1.3 /I2C Compliant
- Built-In NVM to Store Custom Configurations
- Programmable Loop Compensation
- Programmable VBOOT
- Phase-to-phase Active Current Balancing
- UVLO/Vin OVP/UVP/OVP/OCP/OTP/RVP with Options of No Action, Latch, Retry or Hiccup
- Line-floating Detection
- DRMos FLT/CNT Detection
- PMBus System Interface for Dynamic VID, Telemetry of Voltage, Current, Power, Temperature and Fault Conditions
- Available in a QFN(5mmx5mm)-40 Package

Application

- xPU Core Voltage
- DDRs
- Telecom and Networking Systems

Benefits

- Fast Transient Response
- Configurable Load Line with High Precision
- Multiple Telemetry and Reporting Mechanism
- Complete Fault Detection and Protection

JWH7067

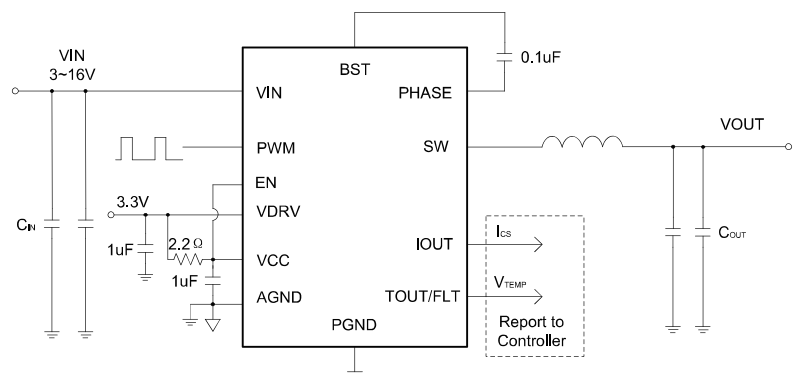
16V/70A DrMOS

Key Features

- 3V to 16V Operating Input Range
- Operation Frequency up to 1.5MHz
- Accepts Tri-state PWM Signal
- Up to 70A Peak Current
- 5uA/A Current Sensing
- Current Mode Iout Report for Better Noise Immunity
- Cycle-by-cycle HS Over-Current Protection and Fault Indicator
- 8-mV/°C Temperature Analog Output
- Thermal Protection and Fault Flag
- Intel Common Foot-Print
- TLGA(5mmX6mm) Package
- Compliant with Mainstream Controllers

Application

- Server Core Voltage
- Graphic Card Core Regulators
- Base Stations



JWH7030

28V/30A DrMOS

Key Features

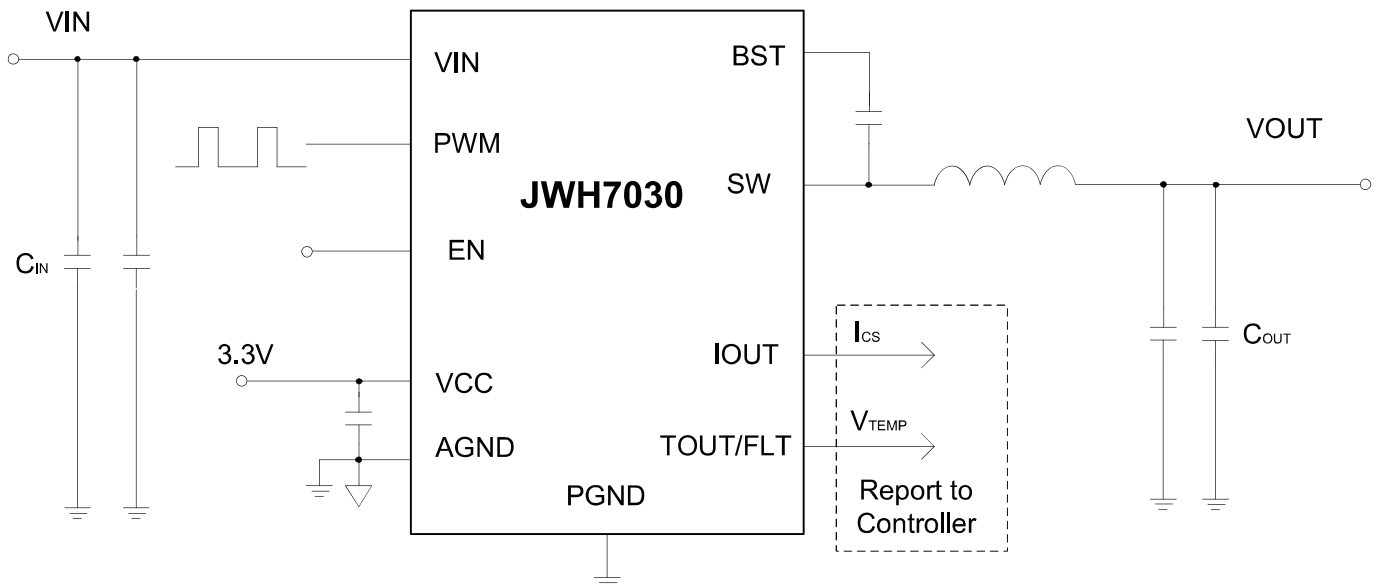
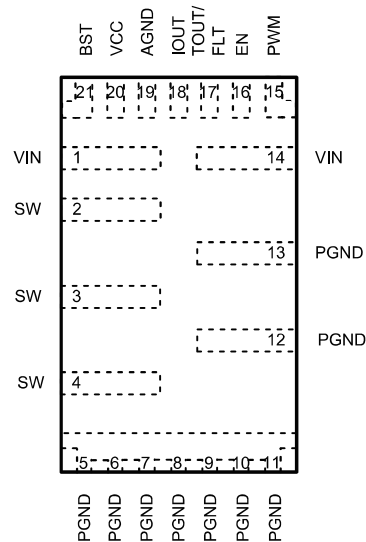
- Wide Operating Input Range (ABS=28V)
- Up to 30A Peak Current
- Operation Frequency up to 1.5MHz
- Accepts Tri-State PWM Signal
- 10uA/A Current Sensing
- Current Mode Iout Report for Better Noise Immunity
- 10mV/°C Temperature Analog Output
- Cycle-by-cycle HS Over-current Protection and Fault Indicator
- Thermal Protection and Fault Indicator
- Available in QFN(3mmx5mm)-21 Package
- Compliant with Mainstream Controllers

Application

- Notebook Core Voltage
- Power Modules

Benefits

- On-die Accurate Current Sensing
- Real-time Sensing for LS Current Reporting
- Cycle-by-cycle Current-limit Protection



JWH5084

17V/12A Sync. Buck Converter

Key Features

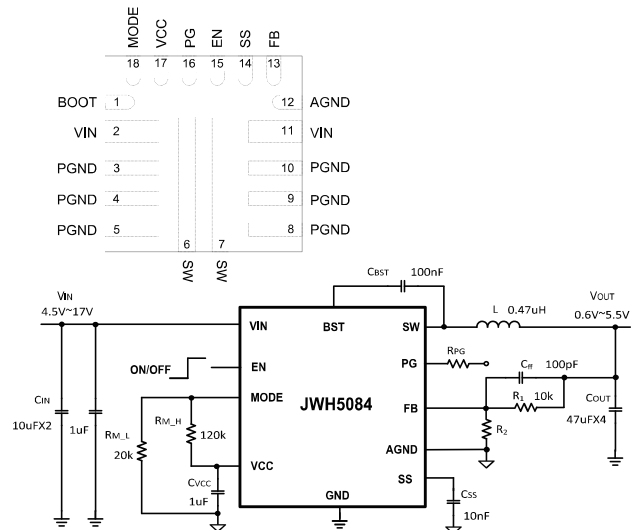
- 4.5V to 17V Operating Input Range
- **12A Output Current**
- Selectable Accurate Current Limit Level
- $\pm 1\%$ Reference Voltage over -40°C to $+125^{\circ}\text{C}$ Junction Temperature Range
- FCCM Operation Mode
- Power Good Indicator
- **Programmable Soft-start Time**
- **Selectable Switching Frequency 400kHz, 800kHz, and 1200kHz**
- Output Discharge Dunction
- Non-latch OCP, UVP, OVP, UVLO
- Thermal Protection
- Available in VQFN3.5X3.5-18 Package

Application

- Telecom and Networking Systems
- Server, Cloud-Computing, Storage
- Base Station

Benefits

- High Accuracy Output-voltage
- Good Efficiency at Heavy Load
- Support all Ceramic Output Capacitors
- Power Good Indicator
- Fast Load Response



12A Buck Converter

JWH5085A&JWH5087A

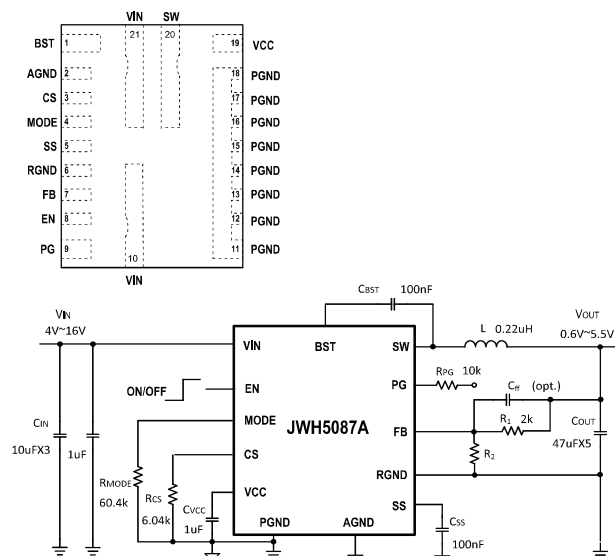
16V/12&20A Sync. Buck Converter

Key Features

- 2.7V to 17V Operating Input Range with External 3.3V VCC Bias
- 4V to 17V Operating Input Range with Internal Bias or External 3.3V VCC Bias
- **12A&20A Output Current**
- **Differential Remote Sense with $\pm 0.5\%$ Reference Voltage for 0°C to $+70^{\circ}\text{C}$ Junction Temperature**
- FCCM Operation Mode
- Programmable Accurate Current Limit Level
- Power Good Indicator
- Programmable Soft-start Time
- Selectable Switching Frequency from 700kHz, 800kHz, and 1000kHz
- Output Discharge Function
- Non-latch OCP, UVP, OVP, UVLO
- Thermal Protection
- Available in QFN3X4-21 Package

Application

- Telecom and Networking Systems
- Server, Cloud-Computing, Storage
- Base Station
- General Purpose Point-of-Load

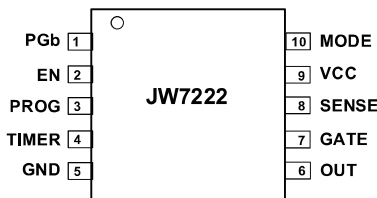


JW7222

18V High-Side Hotswap Controller

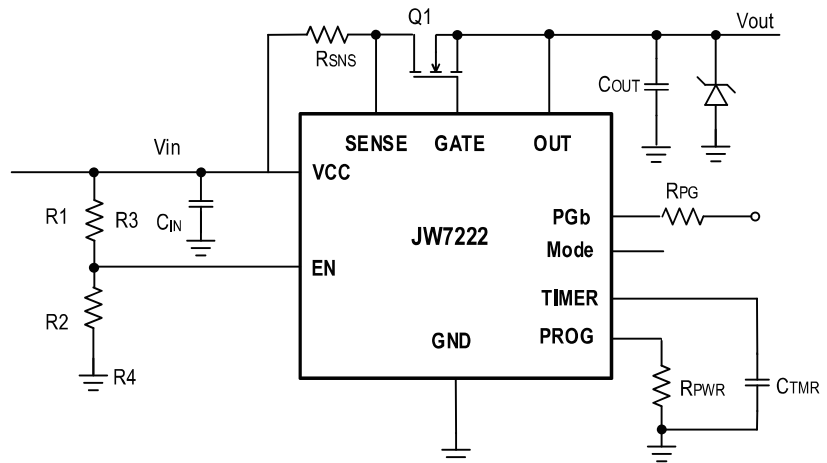
Key Features

- Wide Operating Range: 2.5 V to 18 V
- Inrush Current Limit Protection
- Programmable Maximum Power Dissipation via External Resistor
- **Accurate 25mV($\pm 10\%$) Current-sense Threshold**
- Power Good Output
- Circuit Breaker Function for Severe Overcurrent Events
- Adjustable Under-voltage Lockout (UVLO) and Hysteresis
- Package: MSOP10



Application

- Server Backplane Systems
- Storage Area Networks
- Plug-IN Modules
- Medical Systems



JW7221

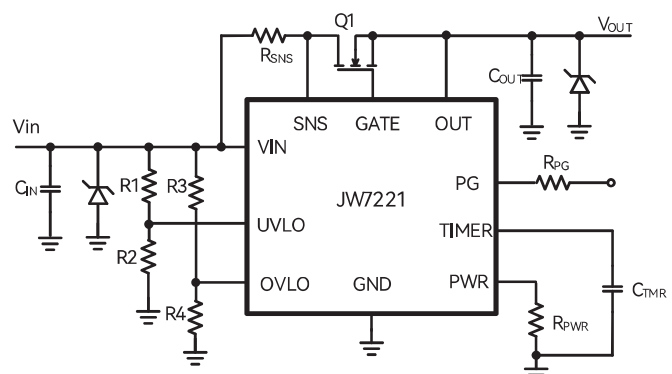
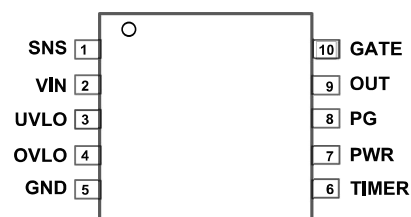
100V High-side Hotswap Controller

Key Features

- **Wide Operating Range: 9 V to 80 V**
- Inrush Current Limit Protection
- Programmable Power Limit
- **Adjustable Current limit: 55mV $\pm 11\%$**
- Circuit Breaker Function for Severe Overcurrent Events
- Adjustable Under-voltage Lockout (UVLO) and Hysteresis
- Adjustable Over-voltage Lockout (OVLO) and Hysteresis
- Initial Insertion Timer Allows Ringing and Transients to Subside after System Connection
- Programmable Fault Timer
- Active High Open Drain Power Good Output
- Automatic Restart After Protections
- Quick Output Discharge
- 10-Pin MSOP Package

Application

- Server Backplane Systems
- Base Station Power Distribution Systems
- Solid State Circuit Breaker
- 24-V and 48-V Industrial Systems



JW5068A/C

23V/8A Sync. Buck Converter

Key Features

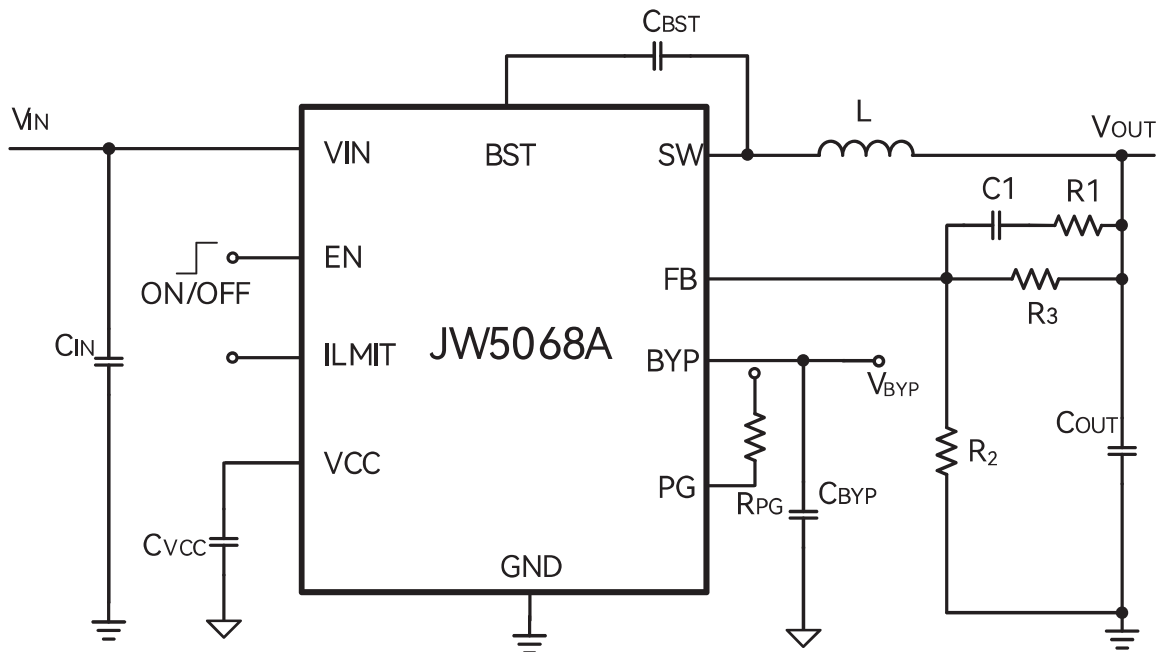
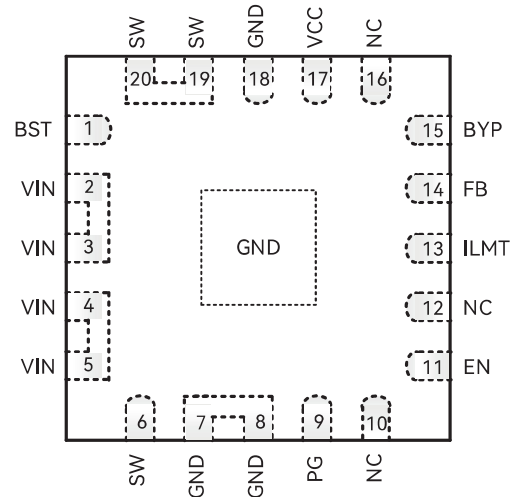
- 4V to 23V Operating Input Range
- 8A Output Current
- 500kHz Switching Frequency
- Programmable Valley Current Limit
- Reference Voltage Range $600\text{mV} \pm 1\%$
- Support POSCAP and MLCC Capacitor
- Input Under Voltage Lockout
- Output Short Protection
- Output Over Voltage Protection
- Power Good Function
- Output Discharge Function
- Thermal Protection
- Available in QFN 3x3 Package

Application

- Notebook
- TV and Monitors

Benefits

- High Efficiency
- Fast Transient Performance



工业自动化

DCDC

PSE/PoE

eFuse

Load Switch

Hotswap

Isolated Power

Power Module

JWH7294

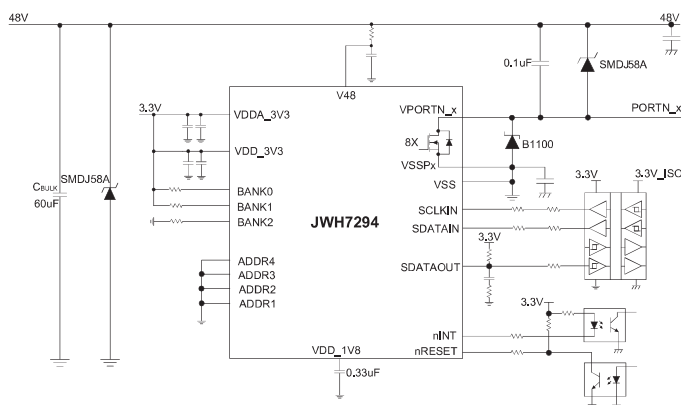
IEEE 802.3bt Compliant 8 Channel FET-Integrated PSE Controller

Key Features

- Four IEEE 802.3bt-compliant PSE Ports
- Can Be Configured to 8CH 802.3at PSE Ports
- Two Power Channels Per Port
- **Fully Compliant IEEE 802.3bt Type 3 and 4 PSE**
- Low Power Path Dissipation Per Channel
- 200mΩ MOSFET R_{DS(ON)}
- **Very High Reliability Four Point PD Detection**
- Continuous, Dedicated Per-Channel Voltage and Current Monitoring
- 1MHz I2C Compatible Serial Control Interface

Application

- Routers and Switches for Enterprise and Commercial Markets
- Network Video Recorders (NVRs)



PSE Conformance Test Suite			 Sifos® Technologies		802.3bt 4Pr Conformance Report					
September 29 2022 7:15 PM		PSE Type: 4 MDI-X+MDI			version 5.2.76					
Port Count..... 1		Safety Index*: 96%			report version 5.2.21					
Loop Count..... 1		Interop Index*: 99%								
PSE Tested: Unspecified Type-4			Error Log: None							
Chassis ID: 192.168.221.105		PSA-3000 Ports		Min	Max	Average	Low Limit	P/F	High Limit	P/F
TestLoop: 1		1-1	UNITS							
Test: det v										
Open Circuit Voc A=		11.5	volts	11.5	11.5	11.5	0	Pass	30	Pass
Open Circuit Voc B=		11.5	volts	11.5	11.5	11.5	0	Pass	30	Pass
Backoff Voltage A=		0.5	volts	0.5	0.5	0.5	0	Pass	2.8	Pass
Backoff Voltage B=		0.6	volts	0.6	0.6	0.6	0	Pass	2.8	Pass
Backoff Voltage Ss=		1	volts	1	1	1	0	Pass	2.8	Pass
Max Det Step V A=		8.05	volts	8.05	8.05	8.05	3.8	Pass	10	Pass
Max Det Step V B=		7.97	volts	7.97	7.97	7.97	3.8	Pass	10	Pass
Min Det Step V A=		4.04	volts	4.04	4.04	4.04	2.8	Pass	9	Pass
Min Det Step V B=		4.05	volts	4.05	4.05	4.05	2.8	Pass	9	Pass
Det Step Changes A=		3	****	3	3	3	1	Pass	9	Pass
Det Step Changes B=		3	****	3	3	3	1	Pass	9	Pass
Min Step DV A=		2.88	volts	2.88	2.88	2.88	1	Pass	7.2	Pass
Min Step DV B=		2.84	volts	2.84	2.84	2.84	1	Pass	7.2	Pass
Pre-Det CC Step V A=		1.61	volts	1.61	1.61	1.61	0	Pass	10	Pass
Pre-Det CC Step V B=		1.64	volts	1.64	1.64	1.64	0	Pass	10	Pass
Test: det cc										
Presumed CC DET SEQ=		1	****	1	1	1	0	Pass	3	Pass
Conn Chk SS V A=		8.02	volts	8.02	8.02	8.02	2.8	Pass	10	Pass
Conn Chk SS V B=		8.03	volts	8.03	8.03	8.03	2.8	Pass	10	Pass
Conn Chk DS V A=		7.82	volts	7.82	7.82	7.82	2.8	Pass	10	Pass

JWH5140/F

100V/0.6A Sync. Buck Converter

Key Features

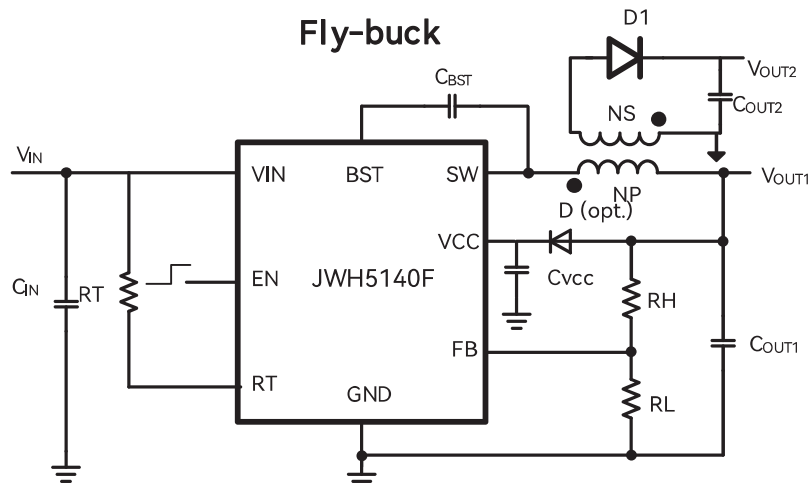
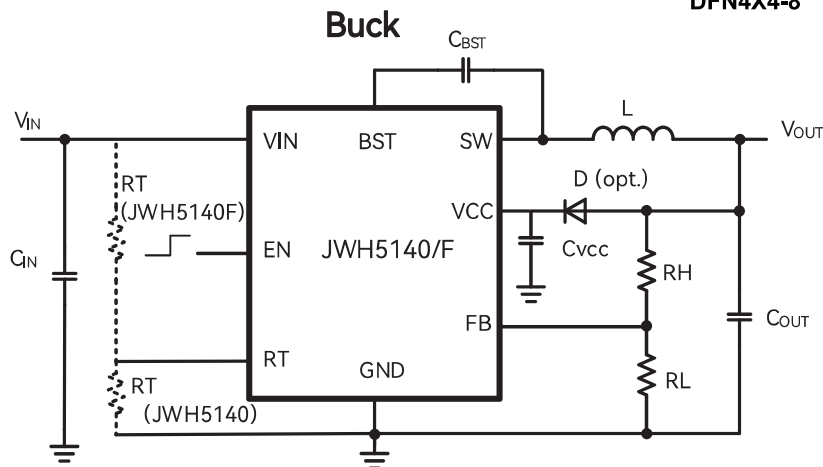
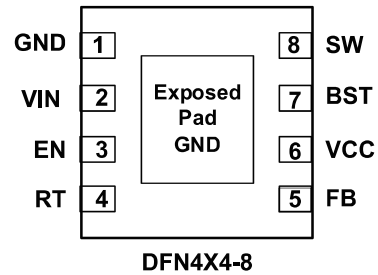
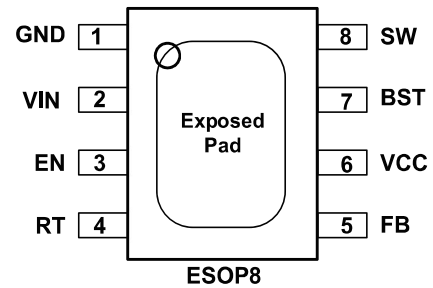
- 6V to 100V Operating Input Range
- 0.6A Output Current
- Internal Soft-start
- Adjustable Switch Frequency
- $\pm 2\%$ FB Accuracy Over Temp Range
- FCCM at Light Load (JWH5140F)
- PFM at Light Load (JWH5140)
- Input Under Voltage Lockout
- Current Run-away Protection
- Short Circuit Protection
- Thermal Protection
- Available in ESOP8/DFN4X4-8 Package

Application

- Distributed Power Systems
- Smart Meter
- Automotive Systems
- High Voltage Power Conversion
- Industrial Power Systems
- Battery Powered Systems

Benefits

- High Efficiency
- High Accuracy Output-voltage



JWH6346

100V High Efficiency Sync. Step-Down PWM Controller

Key Features

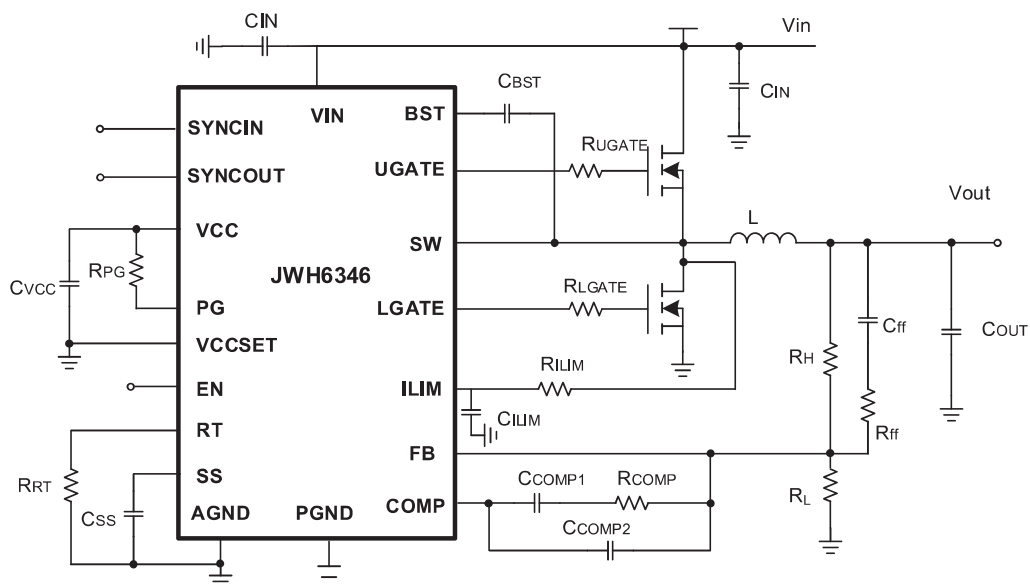
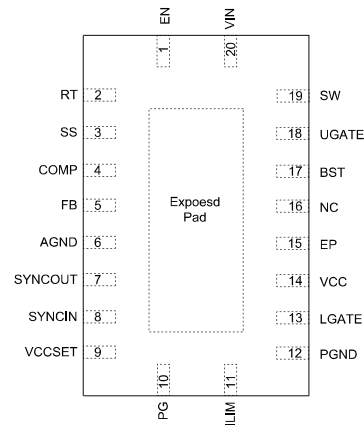
- 6V to 75V Operating Input Range without External VCC
- 5V to 100V Operating Input Range with External VCC
- 0.8V to 60V Output Voltage Range
- **Built-in $\pm 1\%$ 0.8V Reference Voltage**
- Switching Frequency From 100kHz to 1MHz
- -SYNC in and SYNC Out Capability
- **7.5V or 10V Gate Drivers for Standard VTH MOSFETs**
- **-25ns Dead Time**
- -2.3A Source and 3.5A Sink Capability
- -Low-side Soft-start for Pre-bias Start-up
- **Programmable Current Limit by Low Side $R_{DS(ON)}$ Sensing or Shunt Sensing**
- Adjustable Soft-start or Optional Voltage Tracking
- Built-in OCP/UVP
- Power Good Indicator
- Thermal Protection
- Available in QFN3.5X4.5-20 Package

Application

- Networking and Computing Power
- Industrial Motor Driver

Benefits

- Built-in $\pm 1\%$ 0.8V Reference Voltage
- 7.5V or 10V Gate Drivers for Standard VTH MOSFETs -25ns Dead Time
- Programmable Current Limit by Low Side $R_{DS(ON)}$ Sensing or Shunt Sensing

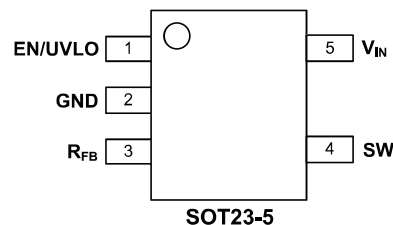


JW3510

Isolated Flyback Converter with 65/1.4A Switch

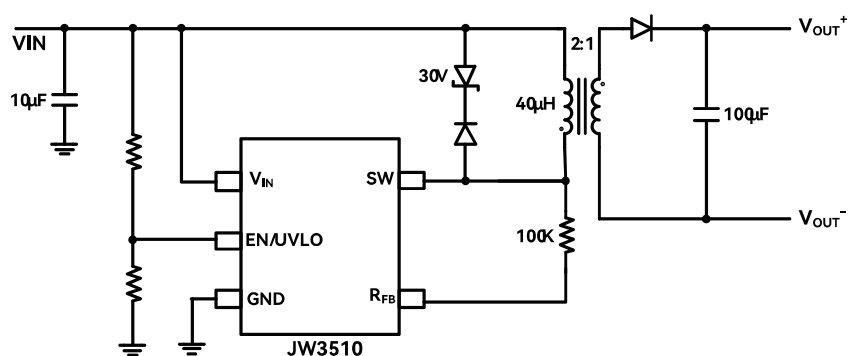
Key Features

- 3.0V to 42V Operating Input Range
- 1.4A, 65V Internal DMOS Power Switch
- Up to 430KHz Operating Frequency
- Low Quiescent Current
- Boundary Mode Operation at Heavy Load
- Burst Mode Operation at Light Load
- VOUT Set with a Single External Resistor
- No Transformer Third Winding or Opto-Isolator Required for Regulation
- SOT23-5 Package



Application

- PTC
- BMS
- Isolated Power for Motor Driver



JW5126

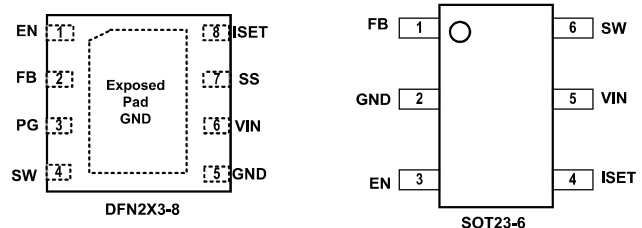
65V/200mA, Low Stand-by Power, Sync. Buck Converter

Key Features

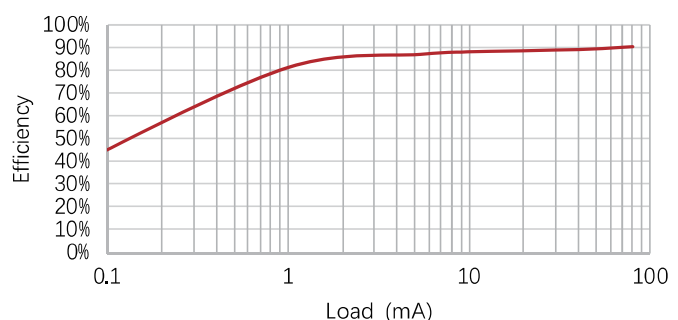
- 4.5V to 65V Operating Input Range
- 200mA Output Current
- Ultra High Efficiency at Light Load
- Adjustable Peak Current Limit
- Internal Soft-start (SOT23-6)
- External Soft-start (DFN2*3-8)
- Adjustable UVLO and Hysteresis
- Current Run-away Protection
- Output Short Protection
- Thermal Protection
- Available in SOT23-6 and DFN2*3-8 Package

Application

- Low stand-by Current System
- Replace LDO with Better Thermal
- 4-12 mA Industry Application



VIN=12V, VOUT=5V



Benefits

- Ultra-high Efficiency, Best in Class
- Good Thermal Performance
- High Accuracy Output-voltage

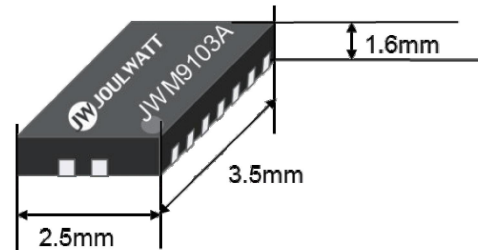
JWM9103A

6V/3A Sync. Step-Down Converter Module

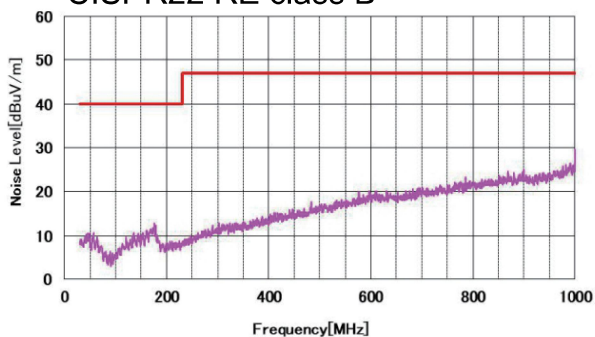
Key Features & Benefits

- 2.5V to 6V Operating Input Range
- Up to 3A Output Current
- 0.6V to VIN Adjustable Output Voltage
- 2 MHz Switching Frequency
- 100% Duty Cycle for Lowest Dropout
- High Efficiency for Compact Application
- Excellent EMC Performance
- P2P with 2A JWM9102

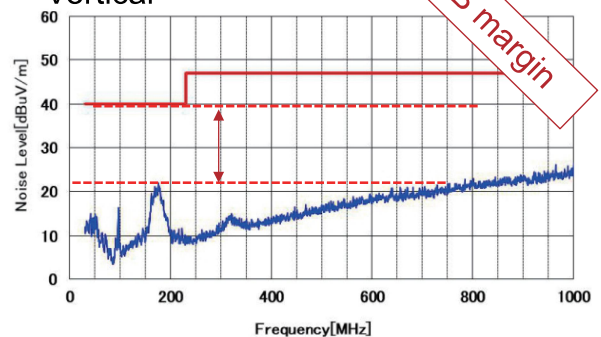
Small package with integrated inductor



CISPR22 RE class B



Vertical



The background of the entire page is a photograph of a modern, multi-story office building with a curved facade and extensive glass windows. The building is reflected in the sky. The title text is overlaid on the central part of the image.

产品型号索引

PRODUCT MODEL INDEX

Switching DCDC Power Supply

Step-down Converter VIN Max <10V												
P/N	Regulated Outputs	V _{IN} (V)	I _{OUT} (A)	V _{FB} (V)	I _Q (uA)	F _{SW} (kHz)	Power Good	Soft Start	Light Load	Sync	Control Method	Package
JW5711	1	2.5~5.5	0.3	1.2~3.3	0.36	1000	N	Internal	PFM	Y	COT	WLCSP1.575x0.875-8
JW5711A	1	2.5~5.5	0.3	0.7~3.1	0.36	1000	N	Internal	PFM	Y	COT	WLCSP1.575x0.875-8
JW5716	2	2.5~5.5	0.3	0.7~3.3	0.36	1000	Y	Internal	PFM	Y	COT	DFN3x2-12
JW5710	2	3.3~10	0.4	1.8~3.3	0.4	1000	Y	Internal	PFM	Y	COT	DFN3x2-12
JW5712	1	2.3~5.5	0.6	1.2~3.3	0.36	1200	N	Internal	PFM	Y	COT	WLCSP8
JW5712A	1	2.3~5.5	0.6	0.7~3.1	0.36	1200	N	Internal	PFM	Y	COT	WLCSP8
JW5250A	1	2.7~6	1	0.6	40	1500	N	Internal	PFM	Y	COT	SOT23-5
JW5250S	1	2.7~6	1	0.6	40	1500	N	Internal	PFM	Y	COT	SOT23-5 / SOT563
JW5291	1	2.7~6	1	0.6	40	1500	N	Internal	PFM	Y	COT	SOT563
JW5291P	1	2.7~6	1	0.6	40	1500	Y	Internal	PFM	Y	COT	SOT563
JW5291F	1	2.7~6	1	0.6	40	1500	N	Internal	FCCM	Y	COT	SOT563
JW5291PF	1	2.7~6	1	0.6	40	1500	Y	Internal	FCCM	Y	COT	SOT563
JW5256	1	2.7~6	1.2	0.6	40	1500	N	Internal	PFM	Y	COT	SOT23-5
JW5211	1	2.5~6	1.2	0.6	50	1500	Y	Internal	PFM	Y	PCM	SOT23-5 / SOT23-6
JW5262C	1	2.6~6	1.5	0.6	40	1500	Y	Internal	PFM	Y	COT	SOT23-5 / SOT23-6
JW5262CM	1	2.6~6	1.5	0.6	40	1500	Y	Internal	PFM	Y	COT	SOT23-5 / SOT23-6
JW5231	1	2.5~5.5	1.5	0.6	50	1500	Y	Internal	FCCM	Y	PCM	SOT23-5 / SOT23-6
JW5217	1	2.5~6	2	0.45	30	2000	Y	Internal	PFM	Y	COT	DFN2X2-8
JW5223	1	2.5~6	2	0.6	40	1500	Y	Internal	PFM	Y	PCM	SOT23-5 / SOT23-6
JW5252	1	2.5~6	2	0.6	60	1000	Y	Internal	PFM	Y	COT	SOT23-5/TSOT23-8/ SOT23-6
JW5262N	1	2.6~6	2	0.6	40	1500	Y	Internal	PFM	Y	COT	SOT23-5 / SOT23-6
JW5262NM	1	2.6~6	2	0.6	40	1500	Y	Internal	PFM	Y	COT	SOT23-5 / SOT23-6
JW5222N	1	2.5~6	2.5	0.6	60	1000	Y	Internal	PFM	Y	PCM	SOT23-6
JW5222R	1	2.5~6	2.5	0.6	60	1000	Y	Internal	PFM	Y	PCM	SOT23-6
JW5213H	1	2.5~6	3	0.6	50	1000	Y	Internal	PFM	Y	PCM	DFN2x2-8
JW5213L	1	2.5~6	3	0.6	50	1000	Y	Internal	PFM	Y	PCM	DFN2x2-8
JWH5280	1	2.5~6	3	0.8	40	2000	Y	Internal	PFM	Y	COT	DFN2x2-7
JW5255A	1	2.5~5.5	5	0.6	60	1000	Y	Adjustable	PFM	Y	COT	DFN3x3-10
JWH5276	1	2.95~7	6	0.6	210	400~2400	Y	Adjustable	FCCM	Y	COT	QFN3x3-16

Step-down Converter VIN Max >10V												
P/N	Regulated Outputs	V _{IN} (V)	I _{OUT} (A)	V _{FB} (V)	I _Q (uA)	F _{SW} (kHz)	Power Good	Soft Start	Light Load	Sync	Control Method	Package
JW5033C	1	4.5~18	2	0.8	100	700	N	Internal	PFM	Y	PCM	SOT23-6
JW5052C	1	4.5~18	2	0.6	100	700	N	Internal	PFM	Y	PCM	SOT23-6
JW5052S	1	3.7~18	2	0.6	120	800	N	Internal	PFM	Y	PCM	TSOT23-6
JW5059TC	1	4.5~18	2	0.765	150	600	N	Internal	PFM	Y	COT	SOT23-6
JW5059TF	1	4.5~18	2	0.765	150	600	N	Internal	FCCM	Y	COT	SOT23-6
JW5092	1	3.7~18	2	0.8	120	800	N	Internal	PFM	Y	PCM	TSOT23-6 / SOT563
JW5092A	1	4.5~18	2	0.8	140	600	N	Internal	PFM	Y	COT	SOT563

Step-down Converter VIN Max >10V												
P/N	Regulated Outputs	V _{IN} (V)	I _{OUT} (A)	V _{FB} (V)	I _Q (uA)	F _{SW} (kHz)	Power Good	Soft Start	Light Load	Sync	Control Method	Package
JW5092H	1	4.5~18	2	0.8	140	1000	N	Internal	PFM	Y	COT	SOT563
JW5092AF	1	4.5~18	2	0.8	140	600	N	Internal	FCCM	Y	COT	SOT563
JW5352	1	4.5~18	2	0.6	140	600	N	Internal	PFM	Y	COT	SOT23-6
JW5352H	1	4.5~18	2	0.6	140	1140	N	Internal	PFM	Y	COT	SOT23-6
JW5352HM	1	4.5~18	2	0.6	140	1140	N	Internal	PFM	Y	COT	SOT23-6
JW5352M	1	4.5~18	2	0.6	140	600	N	Internal	PFM	Y	COT	SOT23-6
JW5359	1	4.5~18	2	0.765	140	600	N	Internal	PFM	Y	COT	SOT23-6
JW5359M	1	4.5~18	2	0.765	140	600	N	Internal	PFM	Y	COT	SOT23-6
JW5359F	1	4.5~18	2	0.765	140	600	N	Internal	FCCM	Y	COT	SOT23-6
JW5359FM	1	4.5~18	2	0.765	140	600	N	Internal	FCCM	Y	COT	SOT23-6
JW5360	1	4.5~18	2	0.6	140	600	N	Internal	PFM	Y	COT	DFN2x2-6
JW5362H	1	4.5~18	2	0.6	150	1200	N	Internal	PFM	Y	COT	SOT563
JW5362HF	1	4.5~18	2	0.6	150	1200	N	Internal	FCCM	Y	COT	SOT563
JW5392	1	4.5~18	2	0.8	150	600	N	Internal	PFM	Y	COT	SOT563
JW5392F	1	4.5~18	2	0.8	150	600	N	Internal	FCCM	Y	COT	SOT563
JW5392H	1	4.5~18	2	0.8	150	1200	N	Internal	PFM	Y	COT	SOT563
JW5392HF	1	4.5~18	2	0.8	150	1200	N	Internal	FCCM	Y	COT	SOT563
JW5397	1	4.5~18	2.5	0.8	150	600	N	Internal	PFM	Y	COT	SOT563
JW5397F	1	4.5~18	2.5	0.8	150	600	N	Internal	FCCM	Y	COT	SOT563
JW5357	1	4.5~18	3	0.6	150	600	N	Internal	PFM	Y	COT	SOT23-6
JW5357M	1	4.5~18	3	0.6	150	600	N	Internal	PFM	Y	COT	SOT23-6
JW5357H	1	4.5~18	3	0.6	150	1140	N	Internal	PFM	Y	COT	SOT23-6
JW5357HM	1	4.5~18	3	0.6	150	1140	N	Internal	PFM	Y	COT	SOT23-6
JW5061TC	1	4.5~18	3	0.765	150	600	N	Internal	PFM	Y	COT	SOT23-6
JW5061TF	1	4.5~18	3	0.765	150	600	N	Internal	FCCM	Y	COT	SOT23-6
JW5361	1	4.5~18	3	0.765	150	600	N	Internal	PFM	Y	COT	SOT23-6
JW5361M	1	4.5~18	3	0.765	150	600	N	Internal	PFM	Y	COT	SOT23-6
JW5361F	1	4.5~18	3	0.765	150	600	N	Internal	FCCM	Y	COT	SOT23-6
JW5361FM	1	4.5~18	3	0.765	150	600	N	Internal	FCCM	Y	COT	SOT23-6
JW5361H	1	4.5~18	3	0.765	150	1200	N	Internal	PFM	Y	COT	SOT23-6
JW5361HM	1	4.5~18	3	0.765	150	1200	N	Internal	PFM	Y	COT	SOT23-6
JW5361HF	1	4.5~18	3	0.765	150	1200	N	Internal	FCCM	Y	COT	SOT23-6
JW5361HFM	1	4.5~18	3	0.765	150	1200	N	Internal	FCCM	Y	COT	SOT23-6
JW5363H	1	4.5~18	3	0.6	150	1200	N	Internal	PFM	Y	COT	SOT563
JW5363HF	1	4.5~18	3	0.6	150	1200	N	Internal	FCCM	Y	COT	SOT563
JW5363F	1	4.5~18	3	0.6	150	600	N	Internal	FCCM	Y	COT	SOT563

Step-down Converter VIN Max >10V												
P/N	Regulated Outputs	V _{IN} (V)	I _{OUT} (A)	V _{FB} (V)	I _Q (uA)	F _{SW} (kHz)	Power Good	Soft Start	Light Load	Sync	Control Method	Package
JW5363HF	1	4.5~18	3	0.6	150	1200	N	Internal	FCCM	Y	COT	SOT563
JW5040	1	3.8~18	3	0.8	120	500	N	Internal	PFM	Y	PCM	SOT563 / TSOT23-6
JW5040C	1	4.5~16	3	0.8	100	500	N	Internal	PFM	Y	PCM	SOT23-6
JWH5045	1	4.5~18	3	0.8	140	600	N	Internal	PFM	Y	COT	SOT563
JW5057C	1	4.5~16	3	0.6	100	500	N	Internal	PFM	Y	PCM	SOT23-6
JW5058S	1	4.5~18	3	0.6	150	1000	N	Internal	PFM	Y	COT	SOT23-6
JW5093	1	4.5~18	3	0.8	140	600	N	Internal	PFM	Y	COT	SOT563
JW5371	1	4.5~18	3	0.765	150	600	N	Internal	PFM	Y	COT	TSOT23-6
JW5371F	1	4.5~18	3	0.8	150	600	N	Internal	FCCM	Y	COT	TSOT23-6
JW5393F	1	4.5~18	3	0.8	150	600	N	Internal	FCCM	Y	COT	SOT563
JW5393H	1	4.5~18	3	0.8	150	1200	N	Internal	PFM	Y	COT	SOT563
JW5393HF	1	4.5~18	3	0.8	150	1200	N	Internal	FCCM	Y	COT	SOT563
JW5393C	1	4.5~18	3	0.8	150	600	N	Internal	PFM	Y	COT	SOT563
JW5393CF	1	4.5~18	3	0.8	150	600	N	Internal	FCCM	Y	COT	SOT563
JW5062T	1	4~18	4	0.765	260	600	Y	Internal	PFM	Y	COT	TSOT23-6 / TSOT23-8
JW5062TF	1	4~18	4	0.765	260	600	Y	Internal	FCCM	Y	COT	TSOT23-6 / TSOT23-8
JW5372	1	4.5~18	4	0.765	150	600	N	Internal	PFM	Y	COT	TSOT23-6
JW5372F	1	4.5~18	4	0.765	150	600	N	Internal	FCCM	Y	COT	TSOT23-6
JW5394	1	4.5~18	4	0.8	150	600	N	Internal	PFM	Y	COT	SOT563
JW5394F	1	4.5~18	4	0.8	150	600	N	Internal	FCCM	Y	COT	SOT563
JW5056	1	4.5~18	5	0.76	130	560	N	Internal	PFM	Y	COT	TSOT23-6
JW5056F	1	4.5~18	5	0.76	130	560	N	Internal	FCCM	Y	COT	TSOT23-6
JW5305	1	4.5~18	5	0.765	130	580	Y	Internal	PFM	Y	COT	ESOP8
JW5305F	1	4.5~18	5	0.765	130	580	Y	Internal	FCCM	Y	COT	ESOP8
JW5066	1	4.5~18	6	0.76	130	560	N	Internal	PFM	Y	COT	TSOT23-6
JW5066F	1	4.5~18	6	0.76	130	560	N	Internal	FCCM	Y	COT	TSOT23-6
JW5306	1	4.5~18	6	0.765	130	580	Y	Internal	PFM	Y	COT	ESOP8
JW5306F	1	4.5~18	6	0.765	130	580	Y	Internal	FCCM	Y	COT	ESOP8
JWH5046	1	4.5~17	6	0.6	380	210~1770	Y	Adjustable	FCCM	Y	PCM	QFN3.5x3.5-14
JWH5083	1	4.5~17	8	0.6	580	400/800/1200	Y	Adjustable	FCCM	Y	COT	QFN3.5x3.5-18
JWH5084	1	4.5~17	12	0.6	580	400/800/1200	Y	Adjustable	FCCM	Y	COT	QFN3.5x3.5-18
JWH5085	1	2.7~16	12	0.6	620	700/800/1000	Y	Adjustable	FCCM	Y	COT	QFN3x4-21
JWH5085A	1	2.7~16	12	0.6	620	700/800/1000	Y	Adjustable	FCCM	Y	COT	QFN3x4-21
JWH5084H	1	4.5~17	14	0.6	580	400/800/1200	Y	Adjustable	FCCM	Y	COT	QFN3.5x3.5-18
JWH5086	1	8.8~16	16	0.6	550	700/800/1000	Y	Adjustable	FCCM	Y	COT	QFN3x4-21
JWH5086A	1	2.7~16	16	0.6	550	700/800/1000	Y	Adjustable	FCCM	Y	COT	QFN3x4-21
JWH5087A	1	2.7~16	20	0.6	550	700/800/1000	Y	Adjustable	FCCM	Y	COT	QFN3x4-21

Step-down Converter V_{IN} Max >10V												
P/N	Regulated Outputs	V_{IN} (V)	I_{OUT} (A)	V_{FB} (V)	I_Q (uA)	F_{SW} (kHz)	Power Good	Soft Start	Light Load	Sync	Control Method	Package
JWH5087AW	1	2.7~16	20	0.6	550	700/800/1000	Y	Adjustable	FCCM	Y	COT	QFN3x4-19
JWH5087	1	8.8~16	20	0.6	550	700/800/1000	Y	Adjustable	FCCM	Y	COT	QFN3x4-21
JWH5087W	1	8.8~16	20	0.6	550	700/800/1000	Y	Adjustable	FCCM	Y	COT	QFN3x4-19
JW5017A	1	4.5~26	1.2	0.8	40	750/1100	N	Internal	FCCM	Y	PCM	SOT23-6
JW5017F	1	4.5~26	1.2	0.8	40	1200	N	Internal	FCCM	Y	PCM	SOT23-6
JW5017S	1	4.5~26	1.2	0.8	40	1200	N	Internal	PFM	Y	PCM	SOT23-6
JW5022S	1	4.5~24	2	0.923	50	500	N	Internal	PFM	Y	PCM	SOP8
JW5027	1	3.8~24	2	0.8	120	1400	N	Internal	PFM	Y	PCM	SOT23-6
JW5031S	1	3.7~23	2	0.8	120	800	N	Internal	PFM	Y	PCM	TSOT23-6
JW5034	1	4.7~24	2	0.8	100	570	N	Internal	FCCM	Y	PCM	TSOT23-6
JW5071	1	4.5~28	2	0.6	120	600	N	Internal	PFM	Y	PCM	SOT23-6
JW5025	1	4.6~20	3	0.923	55	340	N	Adjustable	PFM	Y	PCM	ESOP8
JW5057S	1	4~24	3	0.6	220	500	N	Internal	PFM	Y	COT	TSOT23-6
JW5060T	1	4~24	3	0.765	260	800	Y	Internal	Selectable	Y	COT	TSOT23-6 / TSOT23-8
JW5060TF	1	4~24	3	0.765	260	800	N	Internal	FCCM	Y	COT	TSOT23-6
JW5065	1	4~24	3	0.8	260	450	N	Internal	Selectable	Y	COT	TSOT23-8
JW5069A	1	4~23	6	0.6	45	500	Y	Internal	PFM	Y	COT	QFN3x3-20
JW5069C	2	5.5~23	6	5.1	36	600	Y	Internal	PFM	Y	COT	QFN3x3-20
JW5068A	1	4~23	8	0.6	45	500	Y	Internal	PFM	Y	COT	QFN3x3-20
JW5068C	2	5.5~23	8	5.1	36	600	Y	Internal	PFM	Y	COT	QFN3x3-20
JW5079A	1	4~23	10	0.6	45	500	Y	Internal	PFM	Y	COT	QFN3X3-20
JW5079C	2	5.5~23	10	5.1	36	600	Y	Internal	PFM	Y	COT	QFN3x3-20
JW5018	1	4.7~40	0.6	0.8	40	2000	N	Internal	PFM	Y	PCM	SOT23-6
JW5018B	1	4.7~40	0.6	0.8	40	800	N	Internal	PFM	Y	PCM	SOT23-6
JW5026	1	4.7~40	1	0.8	40	1100	N	Internal	FCCM	Y	PCM	SOT23-6
JW5015A	1	3.6~40	2	0.8	65	440	N	Internal	PFM	Y	PCM	ESOP8
JW5116F	1	4.7~40	3	0.8	65	100~700	N	Internal	PFM	N	PCM	ESOP8/ SOP8
JW5110	1	4.5~46	0.2	0.8	26	-	Y	Internal	PFM	Y	HYS	SOT23-6 / DFN2x3-8
JW5117S	1	4.5~45	5	0.75	180	100~2000	N	Adjustable	PFM	Y	PCM	ESOP8
JW5117	1	4.5~45	5	0.8	180	100~2000	Y	Adjustable	PFM	N	PCM	DFN4x4-10
JW5117C	1	4.5~45	5	0.8	180	100~2000	N	Internal	PFM	N	PCM	ESOP8
JW5126	1	4.5~65	0.2	0.8	26	-	Y	Internal	PFM	Y	HYS	SOT23-6 / DFN2x3-8
JW5121	1	4.5~60	2	0.8	130	100~2000	Y	Internal	PFM	N	PCM	ESOP8

Step-down Converter VIN Max >10V												
P/N	Regulated Outputs	V _{IN} (V)	I _{OUT} (A)	V _{FB} (V)	I _Q (uA)	F _{SW} (kHz)	Power Good	Soft Start	Light Load	Sync	Control Method	Package
JWH5123S	1	4.5~65	3.5	0.75	180	100~2000	N	Adjustable	PFM	N	PCM	ESOP8
JWH5123P	1	4.5~65	3.5	0.75	180	100~2000	Y	Internal	PFM	N	PCM	ESOP8
JWH5125S	1	4.5~65	5	0.75	180	100~2000	N	Adjustable	PFM	Y	PCM	ESOP8
JWH5125	1	4.8~65	5	0.8	180	100~2000	Y	Adjustable	PFM	N	PCM	DFN4x4-10
JWH5125C	1	4.5~65	5	0.8	180	100~2000	N	Internal	PFM	N	PCM	ESOP8
JWH5140	1	6~100	0.6	1.225	100	100~1000	N	Internal	PFM	Y	COT	DFN4x4-8 / ESOP8
JWH5140F	1	6~100	0.6	1.225	100	100~1000	N	Internal	FCCM	Y	COT	DFN4x4-8 / ESOP8

Multi-phase controller										
P/N	Status	Rail Number	Phase Number	Min Input Voltage(V)	Max Input Voltage(V)	Typical Supply Current(mA)	Min Fsw (kHz)	Max Fsw (kHz)	Interface	Pacakge
JWH6374	Pre-release	2	8	3.15	3.6	30	10	1000	PMBus/I2C	QFN5*5-40

DrMOS										
P/N	Status	Min Input Voltage(V)	Max Input Voltage(V)	Max Output Current(A)	Typical Current Limit(A)	Typical Supply Current(mA)	Min Fsw(kHz)	Max Fsw(kHz)	PWM Logic Voltage(V)	Package
JWH7060	Production	3	16	60	75	0.175	100	1000	3.3	LGA5X6-41
JWH7067	Pre-release	3	16	70	75	0.2	100	1500	3.3	TLGA5x6-41
JWH7030	Pre-release	4.5	22	30	60	0.36	100	1500	3.3	QFN3*5-21

Power Module												
P/N	Regulated Outputs	V _{IN} (V)	I _{OUT} (A)	V _{FB} (V)	I _Q (uA)	F _{SW} (kHz)	Power Good	Soft Start	Light Load	Sync	Control Method	Package
JWM9102	1	2.9~6	2	0.6	850	2000	Y	Internal	FCCM	Y	COT	QFN2.5x3.5x1.6-17
JWM9103A	1	2.9~6	3	0.6	850	2000	Y	Internal	FCCM	Y	COT	QFN2.5x3.5x1.6-17

Step-up Converter										
P/N	Regulated Outputs	V _{IN} (V)	V _{OUT} (V)	V _{SUB} (V)	Max. Switch Current (A)	I _Q (uA)	V _{FB} (V)	F _{sw} (kHz)	Type	Package
JW5701A	2	1.2~5.5	3.3	3(LDO)	0.5	0.7	-	300~900	Sync. Converter+LDO	DFN1.5x1.5-6
JW5701B	2	1.2~5.5	3.3	2.8(LDO)	0.5	0.7	-	300~900	Sync. Converter+LDO	DFN1.5x1.5-6
JW5701E	2	1.2~5.5	3	ON(Load Switch)	0.5	0.7	-	300~900	Sync. Converter+Load Switch	DFN1.5x1.5-6
JW5701F	2	1.2~5.5	3.3	ON(Load Switch)	0.5	0.7	-	300~900	Sync. Converter+Load Switch	DFN1.5x1.5-6
JW5701G	2	1.2~5.5	5	ON(Load Switch)	0.5	0.7	-	300~1400	Sync. Converter+Load Switch	DFN1.5x1.5-6
JW5520S	1	1.2~5	2.5~5.5	-	9	30	1.2	600	Sync. Converter	QFN2X2-14
JW5520SA	1	1.2~5.5	2.5~5.5	-	9	30	1.2	600	Sync. Converter	QFN2X2-14
JW5510	1	3~20	4~20	-	10	65	0.9	400	Sync. Converter	QFN3X4-15
JW5513	1	2.6~20	up to 20	-	15	70	1	300~2000	Sync. Converter	QFN3X3-20

Buck Controller								
P/N	Topology	V _{IN} (V)	V _{OUT} (V)	V _{FB} (V)	F _{SW} (kHz)	I _Q (uA)	Package	Features
JWH6344	Buck	6~65	0.8~Dmax·V _{IN}	0.8	100~740	600	QFN3.5X4.5-20	Light Load Selectable(PFM/FCC)
JWH6346	Buck	6~100	0.8~Dmax·V _{IN}	0.8	100~740	600	QFN3.5X4.5-20	Light Load Selectable(PFM/FCC) MOSFET Gate Driver Voltage Selectable(7.5V/10V)

Buck-Boost Converter									
P/N	V _{IN} (V)	V _{OUT} (V)	I _Q (uA)	F _{SW} (kHz)	V _{FB} (V)	Current Limit (A)	Interface	Integrated FET	Package
JW3651	3~21	0.9~20	50	450	0.9	7	No	Yes	QFN3X4-15
JW3702	3~24	2.4~24	30	300~500	1.2	13	I2C	No	QFN4X4-32

Isolated DCDC								
P/N	V _{IN} (V)	Topology	Max Power(W)	R _{DS(ON)} (Ω)	F _{MAX} (kHz)	Soft Start	Features	Package
JWH3515	17~75	Flyback	6	2.1	1MHz	Internal	Internal Error Amplifier, Integrated 200V Power Switch Circuit, Startup Circuit	QFN4x4-8 /SOP8/MSOP8
JWH3530	18~75	Active Clamp Forward&Flyback	300	External	External Setting	Programmable	Support Voltage Mode, Current Mode	QFN4x4-24
JW3510	3~42	Flyback	6	0.5	430	Internal	Opto-Free, EN control	SOT23-5

Automotive Products

Automotive Buck Converter AEC-Q100 Qualified												
P/N	Regulated Outputs	V _{IN} (V)	I _{OUT} (A)	V _{FB} (V)	I _Q (uA)	F _{SW} (kHz)	Power Good	Soft Start	Light Load	Sync	Control Method	Package
JWQ5217	1	2.5~5.5	2	0.45	30	2000	Y	Internal	PFM	Y	COT	DFN2X2-8
JWQ5273	1	2.95~7	3	0.6	210	400~2400	Y	Adjustable	FCCM	Y	COT	QFN3x3- 16
JWQ5276	1	2.95~7	6	0.6	210	400~2400	Y	Adjustable	FCCM	Y	COT	QFN3x3-16
JWQ5102A	1	4~36V	2	0.8	40	400	Y	Internal	PFM	Y	PCM	QFN3x2-12
JWQ5102B	1	4~36V	2	0.8	40	1000	Y	Internal	PFM	Y	PCM	QFN3x2-12
JWQ5102C	1	4~36V	2	0.8	40	2100	Y	Internal	PFM	Y	PCM	QFN3x2-12
JWQ5102CSF	1	4~36V	2	0.8	40	2100	Y	Internal	FCCM	Y	PCM	QFN3x2-12
JWQ5103A	1	4~36V	3	0.8	40	400	Y	Internal	PFM	Y	PCM	QFN3x2-12
JWQ5103B	1	4~36V	3	0.8	40	1000	Y	Internal	PFM	Y	PCM	QFN3x2-12
JWQ5103C	1	4~36V	3	0.8	40	2100	Y	Internal	PFM	Y	PCM	QFN3x2-12
JWQ5103CSF	1	4~36V	3	0.8	40	2100	Y	Internal	FCCM	Y	PCM	QFN3x2-12
JWQ5123	1	4.5~60	3.5	0.75	180	100~2000	N	Internal	PFM	N	PCM	ESOP8
JWQ5125	1	4.5~60	5	0.75	180	100~2000	N	Internal	PFM	N	PCM	ESOP8
Automotive Buck Controller AEC-Q100 Qualified												
P/N	Topology	V _{IN} (V)	V _{OUT} (V)	V _{FB} (V)	F _{SW} (kHz)	I _Q (uA)	Package	Features				
JWQ6346	Buck	6~75	0.8~Dmax·V _{IN}	0.8	100~740	600	QFN3.5X4.5-20	Light Load Selectable(PFM/FCC) MOSFET Gate Driver Voltage Selectable(7.5V/10V)				
Automotive Load Switch and USB Switch AEC-Q100 Qualified												
P/N	Channel	V _{IN} (V)	Max I _{OUT} (A)	I _Q (uA)	Soft Start	Enable	Fault Indicator	Programmable Current Limit	OCP	Package		
JWQ7101	1	2.7~5.5	1.7	100	Internal	ActiveHigh	Y	Y	Y	SOT23-6		
Automotive LDO AEC-Q100 Qualified												
P/N	V _{IN} (V)	I _{OUT} (mA)	I _Q (uA)	Output Options	Features					Package		
JWQ7821	2.2~5.5	1000	200	adjustable	Enable, OTP, OCP, Low noise, High PSRR					DFN3×3-8		
Automotive Gate Driver AEC-Q100 Qualified												
P/N	Channel	Configuration	Capacity (SRC/ SNK, A)		Supply Range(V)	Propagation Delay(ns)		Delay Match(ns)		Package		
JWQ7924	2	Low-side	4.5/ 4.5		4.5~20	13		0.5		SOP8 / ESOP8		

ACDC Power Suuply

ACDC Synchronous Rectifier						
P/N	Breakdown Voltage (V)	R _{ds(on)} (mΩ)	V _{OUT} (V)	Output Current (A)	Supported Operation Mode	Package
JW7700A	40	15	5	2.4	DCM, QR	SOP8
JW7700EC	40	20	5	2	DCM, QR	SOP8
JW7703D	45	10	5	3	DCM, QR	SOP8
JW7707D	60	10	5~12	3	DCM, QR	SOP8
JW7707F	50	7	5	3.4	DCM, QR	SOP8
JW7719A	100	10	5~20	3	CCM, CrCM, DCM, QR	SOP8
JW77198B	80	15	5~15	2.4	CCM, CrCM, DCM, QR	SOP8
JW77186B	60	13	3~12	3	CCM, CrCM, DCM, QR	SOP8
JW7726B	140	External	3~20	-	High Frequency; CCM, CrCM, DCM, QR,ACF	SOT23-6
JW7726BH	150	External	3~20	-	High Frequency; CCM, CrCM, DCM, QR,ACF	SOT23-6
JW7726BL	150	External	3~20	-	CCM, CrCM, DCM, QR,ACF	SOT23-6
JW77218	80	10	3~15	3	CCM, CrCM, DCM, QR	SOP8
JW77216	60	10	3~12	3	CCM, CrCM, DCM, QR	SOP8
JW7721AH	100	10	3~20	3	CCM, CrCM, DCM, QR	SOP8

ACDC Flyback PWM IC									
P/N	Max Power (W)	PSR/SSR	Type	MOSFET Rating (V)	R _{DS(on)} (Ω)	CV/CC Regulation	F _{MAX} (kHz)	Standby Power (mW)	Package
JW1515HA	150	SSR	QR	External GaN	External GaN	-	170	<75	SSOP10
JW1565	120	SSR	QR	650, GaN	0.26(max)	-	170	<75	DFN6*8
JW1566A	45	SSR	QR	650, GaN	0.48(max)	-	170	<75	DFN5*6-7
JW1556	300	SSR	AHB	External	External	-	External Setting	<75	QFN4x4-20
JW1550	200	SSR	ACF	External	External	-	External Setting	<75	QFN4x4-20
JW1512B	150	SSR	Fixed Frequency	External Si	External Si	-	70	<75	SOT23-6
JW1513A	20	SSR	Fixed Frequency	650, Si	1.5(max)	-	70	<75	SOP8
JW1520A	10	PSR	QR	600	3.7	±5%	85	<75	SOP8
JW1520B	12	PSR	QR	650	2.3	±5%	85	<75	SOP8

PFC Controller							
P/N	Max Power (W)	F _{MAX} (kHz)	External OTP	2nD OVP	Loop Compensation	Mode	Package
JW1571	300	130kHz	Yes	Yes	Internal	CRM	SOP8
JW1572	300	130kHz	No	Yes	External	CRM	SOP8

Offline Buck Regulator							
P/N	MOSFET BV (V)	R _{DS(on)} (Ω)	I _{OUT} (mA)	V _{OUT} (V)	Frequency (kHz)	Standby Power (mW)	Package
JW1530	700	15	200	5	30	<30	SOT23-3
JW15307	700	15	200	5	30	<30	SOP8
JW15310	External	External	2000	3~150	-	<150	SOP8
JW1531B	500	5	600	3~150	-	<75	SOP7
JW1531M	500	15	250	3~150	-	<50	SOP7
JWB1536NC	500	20	200	3.3	30	<30	ASOP7
JWB1536AC	500	17	300(450mA pulse)	3.3	30	<30	ASOP7
JW1536NC	500	20	200	3.3	30	<30	SOP7
JW1536AC	500	14	450	3.3	30	<30	SOP7
JW1532A	650	13	300	12/18	65	<30	SOP8
JW1532B	650	5	450	12/18	65	<30	SOP8
JW15328A	650	13	400	12	65	<30	DIP7
JW15328B	650	5	550	12	65	<30	DIP7
JW15329A	650	13	350	18	65	<30	DIP7
JW15329B	650	5	500	18	65	<30	DIP7

Battery Management System

Charger										
P/N	Battery Cells	Control Topology	Charge Current (A)	Max Operation V _{IN} (V)	Absolute V _{IN} (V)	Battery Voltage (V)	OTG Function	Battery Type	Control Interface	Package
JW3653A	1~3	Switch-Mode Buck-boost	3	20	24	3~14	Y	Li-Ion, Li-Polymer, Li-FePO ₄	Stand-alone	QFN3x4-15
JW3655E	1~4	Switch-Mode Buck-boost	3	21	24	3~21	N	Li-Ion, Li-Polymer, Li-FePO ₄	Stand-alone	QFN3x4-15
JW3702	2~4	Switch-Mode Buck-boost	12.75 (R _{CS} =10mΩ)	24	28	2.4~24	Y	Li-Ion, Li-Polymer, Li-FePO ₄	I ² C	QFN4X4-32
JW3902	2~3	Boost	2.5	5.5	20	8.15~13.05	N	Li-Ion, Li-Polymer	I ² C	QFN4X4-24
JW3903	2~3	Boost	2.5	5.5	20	8.4~13.05	N	Li-Ion, Li-Polymer	Stand-alone	QFN4X4-24
JW3663	1	Linear	0.456	5.5	21	4.2	N	Li-Ion, Li-Polymer	I ² C	WLCSP-9 (1.75x1.75)
JW3665	1	Linear	1	7.5	18	4.2	N	Li-Ion, Li-Polymer	Stand-alone	DFN2x2-8
JW3665A	1	Linear	1	7.5	18	4.35	N	Li-Ion, Li-Polymer	Stand-alone	DFN2x2-8
JW3665B	1	Linear	1	7.5	18	4.33	N	Li-Ion, Li-Polymer	Stand-alone	DFN2x2-8
JW4054	1	Linear	0.5	7.5	18	4.2	N	Li-Ion, Li-Polymer	Stand-alone	SOT23-5
JW4054A	1	Linear	0.5	7.5	18	4.35	N	Li-Ion, Li-Polymer	Stand-alone	SOT23-5
JW4056	1	Linear	1	7.5	18	4.2	N	Li-Ion, Li-Polymer	Stand-alone	ESOP-8
JW4056A	1	Linear	1	7.5	18	4.35	N	Li-Ion, Li-Polymer	Stand-alone	ESOP-8

Battery Protection								
P/N	Protection Level	Cell Number	Operation Voltage	Support Banlance	Support Cascade	Comprehensive Protection	Output Mode	Package
JW3311-XXX	1	8~10	6V~60V	N	Y	Over/Under-voltage; Over-current; Over/Under-temperature; Open-wire	Charge and Discharge driver	TSSOP-24
JW3317-XXX	1	5~7	6V~60V	N	Y	Over/Under-voltage; Over-current; Over/Under-temperature; Open-wire	Charge and Discharge driver	TSSOP-24
JW3312-XXX	1	3~5	5V~35V	Y	N	Over/Under-voltage; Over-current; Over/Under-temperature; Open-wire	Charge and Discharge driver	TSSOP-20
JW3318-XXX	1	3~5	5V~35V	Y	Y	Over/Under-voltage; Over-current; Over/Under-temperature; Open-wire	Charge and Discharge driver	TSSOP-20
JW3313-XXX	1	3	3V~25V	N	N	Over/Under-voltage; Over-current; Over/Under-temperature; Open-wire	Charge and Discharge driver	MSOP10
JW3313S-XXX	1	3	3V~25V	N	N	Over/Under-voltage; Over-current; Open-wire	Charge and Discharge driver	SOP8
JW3410-XXX	2	2~5	3V~25V	N	N	Over-voltage; Open-wire	Charge driver	MSOP8

Analog Front-End							
P/N	Min Cells	Max Cells	Operation Voltage	Operating Temperature Range	Communication Interface	Support Cascade	Package
JW3302	4	14	8-60	-40 to 85	SPI	Y	LQFP48
JW3370	4	10	8-60	-40 to 85	SPI	Y	TSSOP38
JW3376	8	16	16-120	-40 to 85	SPI	N	TSSOP48

BMS Special IC							
P/N	Function description	Channel	Cell Number	Operation Voltage	High-side/Low-side	I _Q	Package
JW3330	High-side NMOS driver	4/2	5~16	6~90V	High-side	12.5uA	TSSOP16/SOP8
JW3332	Ideal diode for BMS	1	6~24	10~150V	Low-side	1.1mA	SOP8

Linear Power Supply

Load Switch and USB Switch										
P/N	Channel	V _{IN} (V)	Max I _{OUT} (A)	I _Q (uA)	Soft Start	Enable	Fault Indicator	Programmable Current Limit	OCP	Package
JW7106	1	0.7~5.5	6	60	External	Active High	N	N	N	DFN2x2-8
JW7107S	2	0.7~5.5	6	80	External	Active High	N	N	N	DFN3x2-14
JW7109	2	0.7~5.5	6	80	External	Active High	N	N	N	DFN3x2-14
JW7115	1	2.7~5.5	3	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115-2.5	1	2.7~5.5	2.5	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115A	1	2.7~5.5	3	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7115A-2.5	1	2.7~5.5	2.5	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7115S-1	1	2.7~5.5	1	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115S-2	1	2.7~5.5	2	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115SA-1	1	2.7~5.5	1	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7115SA-2	1	2.7~5.5	2	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7105B	1	2.7~5.5	3	100	Internal	Active High	N	Y	Y	TSOT23-5
JW7111S	1	2.7~5.5	2.2	100	Internal	Active High	Y	Y	Y	SOT23-6 / DFN2x2-6
JW7111SA	1	2.7~5.5	2.2	100	Internal	Active Low	Y	Y	Y	SOT23-6 / DFN2x2-6
JWH7103	1	2.7~5.5	1.7	100	Internal	Active High	Y	Y	Y	SOT23-6 / DFN2x2-6

eFuse / Hotswap / Protection											
P/N	Function	Channel	FET	V _{IN} (V)	Max I _{OUT} (A)	I _Q (mA)	Soft Start	OCP	Programmable Current Limit	OVP	Package
JW7112	eFuse	1	Internal	2.8~16	3	0.15	Internal	Y	Y	N	SOT23-6
JW7118	eFuse, OVP	1	Internal	2.8~22	2.5	0.1	Internal	Y	N	Y	SOT23-6 / DFN3x2-8
JW7211	Hotswap, ORing	1	External	10~80	-	1.1	External	Y	Y	Y	TSSOP16
JW7221	Hotswap	1	External	9~80	-	0.51	External	Y	Y	Y	MSOP10
JW7221L	Hotswap	1	External	9~80	-	0.51	External	Y(latch)	Y	Y	MSOP10
JW7222	Hotswap	1	External	2.5~18	-	1	External	Y	Y	N	MSOP10
JW7228	Protection	1	External	9~80	-	0.53	External	Y	Y	Y	SOP8
JW7228P	Protection	1	External	9~80	-	0.53	External	Y	Y	Y	MSOP10

LDO						
P/N	V _{IN} (V)	I _{OUT} (mA)	I _Q (uA)	Output Options	Features	Package
JW7801	5~40	50	2.5	3.3V	Enable, OTP, OCP	SOT23-5
JW7807-1	2.2~5.5	300	12	1.0V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5
JW7807-1.2	2.2~5.5	300	12	1.2V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-1.35	2.2~5.5	300	12	1.35V	Enable, OTP, OCP, Low noise, High PSRR	DFN1*1-4
JW7807-1.5	2.2~5.5	300	12	1.5V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-1.8	2.2~5.5	300	12	1.8V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-2.1	2.2~5.5	300	12	2.2V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5
JW7807-2.2	2.2~5.5	300	12	2.2V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-2.5	2.2~5.5	300	12	2.5V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-2.7	2.2~5.5	300	12	2.7V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-2.8	2.2~5.5	300	12	2.8V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-2.85	2.2~5.5	300	12	2.85V	Enable, OTP, OCP, Low noise, High PSRR	DFN1*1-4
JW7807-2.9	2.2~5.5	300	12	2.9V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-3.0	2.2~5.5	300	12	3.0V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-3.1	2.2~5.5	300	12	3.1V	Enable, OTP, OCP, Low noise, High PSRR	DFN1*1-4
JW7807-3.3	2.2~5.5	300	12	3.3V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-4.2	2.2~5.5	300	12	4.2V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4
JW7807-4.5	2.2~5.5	300	12	4.5V	Enable, OTP, OCP, Low noise, High PSRR	SOT23-5/DFN1*1-4

ORing and Ideal Diode							
P/N	Channel	FET	High-side/Low-side	V _{IN} (V)	I _Q	Features	Package
JW7201	2	External	High-side	6~80	360uA	Fault Indicator	DFN4x3-14 / SOP16
JW7202	2	External	Low-side	10~150	1.4mA	ORing	SOP8
JW7203	1	External	Low-side	10~150	1.1mA	ORing	SOP8
JW7211	1	External	Low-side	10~80	1.1mA	ORing+Hotsw ap	TSSOP16
JW7260	1	External	High-side	6~80	380uA	ORing	TSOT23-6
JW7265	1	External	High-side	6~60	295uA	Oring, EN Control, Low IQ	TSOT23-6

H-Bridge

P/N	V _{IN} (V)	Current Capability(A)	R _{DS(ON)} (HS+LS) (mΩ)	Integrated MOS	I _Q (uA)	Typical Application	Package
JW7902	3~15	1	1000	Y	10	Relay Driver, IR-cut Driver, Motor Driver	DFN2x2-8 / SOT23-6
JW7951C	4~20	3	40	Y	37	Wireless charger, Full-Bridge Power stage	QFN3x4-15

Gate Driver

P/N	Channel	Configuration	Max Boot-Voltage(V)	Capacity SRC/ SNK, A	Supply Range(V)	Propagation Delay(ns)	Delay Match(ns)	Package
JWH7911	2	High-side & low-side	120	4.0/ 4.0	8~15	42	4	SOP8 / DFN4x4-8
JWH7917	1	Low-side	/	4.0/ 4.0	4.5~20	18	/	SOT23-5/ DFN3x3-6
JWH7924	2	Low-side	/	4.5/ 4.5	4.5~20	13	0.5	SOP8 / EMSOP8 / DFN3x3-8

PSE

P/N	Channel	PoE Protocol	MOSFET	Supply Range(V)	Interface	Package	Special Features
JWH7290	1	af/at	External	44V~60V	I2C	QFN5x7-38	PoE++
JWH7291	4	af/at	External	44V~60V	I2C	QFN5x7-38	~
JW87251	4	af/at	External	44V~60V	I2C	QFN5x7-38	PoE++
JWH7294	8	af/at/bt	Internal	44V~60V	I2C	QFN8x8-58	FET Integrated

USB Charging Controller

P/N	Input Voltage Range	Role	CC/CV	Protocol								Application	Package
				BC1.2	Apple	AFC	QC2.0	QC3.0	PD3.0/PPS	SCP A/B	UFCS		
JW3119	2.9V~24V	DFP	Y	Y	Y	Y	Y	Y	Y	Y	Y	Adaptor	QFN4x4-24

Electric Shock Protection

P/N	R _{DS(ON)} (Ω)	Breakdown Voltage(V)	Power@175~277Vac	Power@90~277Vac	Detection Mode	Dimming	Package
JW1818O	External	External	100W	80W	Voltage	/	SOP8
JW1818B	1.8	600	50W	30W	Voltage	/	SOP8
JW1819O	External	External	100W	100W	Voltage	/	SOT23-6
JW1830D	1.9	600	70V/280mA	60V/280mA	Voltage	/	SOP8
JW1831D	1.9	600	70V/280mA	60V/280mA	Voltage	Trailing edge	SOP8
JW1832D	1.9	600	70V/280mA	60V/280mA	Voltage	Trailing edge	SOP8

LED Lighting

Non-isolated Switching Regulator												
P/N	Topology	PF	HV-JFET	R _{DS(ON)} (Ω)	Breakdown Voltage (V)	Power@ 175-264Vac	Power@ 90-264Vac	Dimming	COMP	OVP	CV/CC	Package
JW1962O	Boost	0.9	N	External	External	300W	250W	/	Internal	Y	CV	SOP8
JW1962H	Boost	0.9	Y	External	External	300W	250W	/	Internal	Y	CV	SOP8
JW1962G	Boost	0.9	N	External	External	300W	250W	/	Internal	Y	CV	SOP8
JW1962A	Boost	0.9	Y	2.8	500	420V120mA	420V60mA	/	Internal	Y	CV	SOP8
JW1962B	Boost	0.9	Y	1.8	500	420V160mA	420V80mA	/	Internal	Y	CV	SOP8
JW1962AH	Boost	0.9	Y	2.8	500	420V120mA	420V60mA	/	Internal	Y	CV	SOP8
JW1962BH	Boost	0.9	Y	1.8	500	420V160mA	420V80mA	/	Internal	Y	CV	SOP8
JW1606	Boost	0.9	N	External	External	200W	180W	Y	External	Y	CC	SOP8
JW1965O	Boost	0.9	Y	External	External	200W	180W	N	Internal	Y	CC	SOP8
JW1965AC	Boost	0.9	Y	5.5	500	420V / 50mA	450V / 40mA	N	Internal	Y	CC	SOP7
JW1965DC	Boost	0.9	Y	3	500	420V / 60mA	420V / 50mA	N	Internal	Y	CC	SOP7
JW1965EC	Boost	0.9	Y	1.8	500	420V / 80mA	420V / 60mA	N	Internal	Y	CC	SOP7
JW1965BC	Boost	0.9	Y	1.8	600	450V / 80mA	450V / 60mA	N	Internal	Y	CC	SOP7
JW19658B	Boost	0.9	Y	1.8	600	450V / 100mA	450V / 80mA	N	Internal	Y	CC	DIP7
JW19658C	Boost	0.9	Y	1	600	450V / 140mA	450V / 120mA	N	Internal	Y	CC	DIP7
JW1813B	Buck-Boost	0.9	Y	1.8	600	100V / 300mA	80V / 300mA	N	Internal	Y	CC	SOP7
JW1969O	Low-side Buck	0.9	Y	External	External	50W	40W	N	Internal	Y	CC	SOP8
JW1969A	Low-side Buck	0.9	Y	8.5	500	90V / 150mA	70V / 150mA	N	Internal	Y	CC	SOP7
JW1969BC	Low-side Buck	0.9	Y	5.5	500	90V / 180mA	70V / 180mA	N	Internal	Y	CC	SOP7
JW1969C	Low-side Buck	0.9	Y	3.2	500	90V / 200mA	70V / 200mA	N	Internal	Y	CC	SOP7
JW1969DC	Low-side Buck	0.9	Y	2.3	500	90V / 250mA	70V / 250mA	N	Internal	Y	CC	SOP7
JW1969EC	Low-side Buck	0.9	Y	1.8	500	90V / 300mA	70V / 300mA	N	Internal	Y	CC	SOP7
JW19698E	Low-side Buck	0.9	Y	1.8	500	90V / 330mA	70V / 330mA	N	Internal	Y	CC	DIP7
JWB19673A	Low-side Buck	0.9	Y	13	650	81V / 100mA	/	N	Internal	Y	CC	ASOP7
JWB19673B	Low-side Buck	0.9	Y	7	650	81V / 150mA	/	N	Internal	Y	CC	ASOP7
JW19673C	Low-side Buck	0.9	Y	4.7	650	90V / 180mA	/	N	Internal	Y	CC	SOP7
JW196738C	Low-side Buck	0.9	Y	4.7	650	90V / 220mA	/	N	Internal	Y	CC	DIP7
JW196738C	Low-side Buck	0.9	Y	4.7	650	90V / 220mA	/	N	Internal	Y	CC	DIP7
JW196738D	Low-side Buck	0.9	Y	2.5	650	90V / 280mA	/	N	Internal	Y	CC	DIP7
JWB19677M	Low-side Buck	0.7	Y	13	500	81V / 100mA	70V / 100mA	N	Internal	Y	CC	ASOP7
JWB19677A	Low-side Buck	0.7	Y	8.5	500	81V / 120mA	70V / 120mA	N	Internal	Y	CC	ASOP7
JWB19677B	Low-side Buck	0.7	Y	5.5	500	90V / 150mA	70V / 150mA	N	Internal	Y	CC	ASOP7
JWB19677C	Low-side Buck	0.7	Y	3	500	90V / 200mA	70V / 200mA	N	Internal	Y	CC	ASOP7

Non-isolated Switching Regulator												
P/N	Topology	PF	HV-JFET	R _{DS(ON)} (Ω)	Breakdown Voltage (V)	Power@ 175-264Vac	Power@ 90-264Vac	Dimming	COMP	OVP	CV/CC	Package
JW19677MD	Low-side Buck	0.7	Y	8.5	500	81V / 100mA	70V / 100mA	N	Internal	Y	CC	SOP4
JW19677AD	Low-side Buck	0.7	Y	5.5	500	90V / 120mA	70V / 120mA	N	Internal	Y	CC	SOP4
JW19677BD	Low-side Buck	0.7	Y	3	500	90V / 150mA	70V / 150mA	N	Internal	Y	CC	SOP4
JWB1992S	Low-side Buck	0.5	Y	22	500	100V / 100mA	70V / 100mA	N	N	N	CC	ASOP7
JWB1992N	Low-side Buck	0.5	Y	17	500	100V / 120mA	70V / 120mA	N	N	N	CC	ASOP7
JWB1992M	Low-side Buck	0.5	Y	13	500	100V / 190mA	70V / 190mA	N	N	N	CC	ASOP7
JWB1992A	Low-side Buck	0.5	Y	8	500	100V / 240mA	70V / 240mA	N	N	N	CC	ASOP7
JWB1992B	Low-side Buck	0.5	Y	4.4	500	100V / 300mA	70V / 300mA	N	N	N	CC	ASOP7
JWB1995B	Low-side Buck	0.5	Y	17	500	100V / 110mA	70V / 110mA	N	N	N	CC	ASOP7
JW19956B	Low-side Buck	0.5	Y	17	500	100V / 110mA	70V / 110mA	N	N	N	CC	SOP4
JWB1997S	Low-side Buck	0.5	Y	22	500	100V / 100mA	70V / 100mA	N	N	N	CC	ASOP7
JWB1997N	Low-side Buck	0.5	Y	17	500	100V / 120mA	70V / 120mA	N	N	N	CC	ASOP7
JWB1997M	Low-side Buck	0.5	Y	13	500	100V / 190mA	70V / 190mA	N	N	N	CC	ASOP7
JWB1997A	Low-side Buck	0.5	Y	8	500	100V / 240mA	70V / 240mA	N	N	N	CC	ASOP7
JWB1997B	Low-side Buck	0.5	Y	4.4	500	100V / 300mA	70V / 300mA	N	N	N	CC	ASOP7
JW19976B	Low-side Buck	0.5	Y	4.4	500	100V / 300mA	70V / 300mA	N	N	N	CC	SOP4
JW1997C	Low-side Buck	0.5	Y	2.9	500	100V / 350mA	70V / 350mA	N	N	N	CC	SOP4
JWB1998MG	Low-side Buck	0.5	Y	13	500	100V / 190mA	70V / 190mA	EN	N	Y	CC	ASOP7
JWB1998AG	Low-side Buck	0.5	Y	8	500	100V / 240mA	70V / 240mA	EN	N	Y	CC	ASOP7
JW19987A	Low-side Buck	0.5	Y	8	500	100V / 240mA	70V / 240mA	EN	N	Y	CC	SOP7
JW19987B	Low-side Buck	0.5	Y	4.4	500	100V / 300mA	70V / 300mA	EN	N	Y	CC	SOP7
JW19988B	Low-side Buck	0.5	Y	5.5	500	100V / 300mA	70V / 300mA	EN	N	Y	CC	DIP7
JW19988C	Low-side Buck	0.5	Y	2.9	500	100V / 400mA	70V / 400mA	EN	N	Y	CC	DIP7
JW19989A	Low-side Buck	0.5	Y	8	500	100V / 300mA	70V / 300mA	EN	N	Y	CC	ESOP6
JW19989B	Low-side Buck	0.5	Y	4.4	500	100V / 500mA	70V / 500mA	EN	N	Y	CC	ESOP6
JW19989C	Low-side Buck	0.5	Y	2.9	500	100V / 600mA	70V / 600mA	EN	N	Y	CC	ESOP6
JWB1996M	Low-side Buck	0.5	Y	13	530	100V / 190mA	70V / 190mA	N	N	Y	CC	ASOP7
JWB1996A	Low-side Buck	0.5	Y	8	530	100V / 240mA	70V / 240mA	N	N	Y	CC	ASOP7

Non-isolated Switching Regulator												
P/N	Topology	PF	HV-JFET	R _{DS(ON)} (Ω)	Breakdown Voltage(V)	Power@175-264Vac	Power@90-264Vac	Dimming	COMP	OVP	CV /CC	Package
JW19967M	Low-side Buck	1	Y	13	530	100V / 190mA	70V / 190mA	N	N	Y	CC	SOP7
JW19967A	Low-side Buck	1	Y	8	530	100V / 240mA	70V / 240mA	N	N	Y	CC	SOP7
JW19967B	Low-side Buck	1	Y	5.5	550	100V / 300mA	70V / 300mA	N	N	Y	CC	SOP7
JW19967C	Low-side Buck	1	Y	3.5	600	100V / 350mA	70V / 350mA	N	N	Y	CC	SOP7
JW1994M	Low-side Buck	1	Y	13	500	100V / 180mA	70V / 180mA	N	N	Y	CC	SOP8
JW1994A	Low-side Buck	1	Y	8	500	100V / 240mA	70V / 240mA	N	N	Y	CC	SOP8
JW1994B	Low-side Buck	1	Y	5.5	500	100V / 300mA	70V / 300mA	N	N	Y	CC	SOP8
JW1994C	Low-side Buck	1	Y	2.8	500	100V / 400mA	70V / 400mA	N	N	Y	CC	SOP8
JW1994D	Low-side Buck	1	Y	1.8	500	100V / 500mA	70V / 500mA	N	N	Y	CC	DIP8
JW19948E	Low-side Buck	1	Y	1.8	500	100V / 500mA	70V / 500mA	N	N	Y	CC	DIP8
JW19928E	Low-side Buck	1	Y	1.8	500	100V / 500mA	70V / 500mA	N	N	Y	CC	DIP7

Isolated Switching Regulator											
P/N	Topology	PF	HV-JFET	R _{DS(ON)} (Ω)	Breakdown Voltage (V)	Power@175-264Vac	Power@90-264Vac	Dimming	COMP	CV/CC	Package
JW1602	Flyback	0.9	N	External	External	100W	80W	Y	External	CC	SOP8
JW1609	Flyback	0.9	N	External	External	100W	80W	N	External	CC	SOT23-6
JW16097	Flyback	0.9	N	External	External	100W	80W	N	External	CC	SOT23-6
JW16098	Flyback	0.9	N	External	External	100W	80W	N	External	CC	SOT23-6
JW1609E	Flyback	0.9	N	1.2	700	40W	25W	N	External	CC	DIP8
JW1680O	Flyback	0.9	Y	External	External	150W	120W	N	Internal	CC	SOP8
JW16803O	Flyback	0.9	Y	External	External	150W	/	N	Internal	CC	SOP8
JW1660B	Flyback	0.5	Y	16	650	10W	8W	N	N	CC	SOP7
JW16608F	Flyback	0.5	Y	1.8	650	40W	30W	N	N	CC	DIP7

Dimmable Solution									
P/N	Topology	MOSFET	V _{IN} (V)	Power@ 175-264Vac	Power@ 90-140Vac	Dimming	COMP	OTP	Package
JW16979C	Linear	Internal	120	-	130V / 50mA	TRIAC	N	150	ESOP8
JW1806M	Boost	Internal	90~260	420V / 30mA	420V / 20mA	TRIAC	Internal	150	SOP8
JW1806A	Boost	Internal	90~260	420V / 40mA	420V / 30mA	TRIAC	Internal	150	SOP8
JW1806B	Boost	Internal	90~260	420V / 50mA	420V / 40mA	TRIAC	Internal	150	SOP8
JW1806C	Boost	Internal	90~260	420V / 60mA	420V / 50mA	TRIAC	Internal	150	SOP8
JW1806EH	Boost	Internal	90~260	420V / 70mA	420V / 60mA	TRIAC	Internal	150	SOP8
JW18287A	Buck	Internal	90~260	100V / 240mA	70V / 240mA	PWM	Internal	150	SOP8
JW18287B	Buck	Internal	90~260	100V / 300mA	70V / 300mA	PWM	Internal	150	SOP8
JW18287C	Buck	Internal	90~260	100V / 400mA	70V / 400mA	PWM	Internal	150	SOP8
JW18287D	Buck	Internal	90~260	100V / 500mA	70V / 500mA	PWM	Internal	150	SOP8
JW18287E	Buck	Internal	90~260	100V / 600mA	70V / 600mA	PWM	Internal	150	SOP8
JW18288B	Buck	Internal	90~260	100V / 400mA	70V / 400mA	PWM	Internal	150	DIP8
JW18288C	Buck	Internal	90~260	100V / 500mA	70V / 500mA	PWM	Internal	150	DIP8
JW18288D	Buck	Internal	90~260	100V / 600mA	70V / 600mA	PWM	Internal	150	DIP8
JW18288E	Buck	Internal	90~260	100V / 700mA	70V / 700mA	PWM	Internal	150	DIP8
JW1828O	Buck	External	90~260	150W	100W	PWM	Internal	150	SOP8

Ripple Remover								
P/N	MOS	V _{IN} (V)	Max I _{OUT} (A)	OVP/SCP/OTP	Dimming	COMP	OTP	Package
JW1221A	External	18~600	5	Hiccup	N	External	145	SOT23-6
JW1237	Internal	18~150	0.5	Hiccup	N	External	145	ESOP8
JW1236A	Internal	16~80	0.5	Hiccup	N	Internal	150	SOT89-3 / TO252-2
JW1236B	Internal	16~80	1.8	Hiccup	N	Internal	150	TO252-2 / TO220-3
JW1251O	External	12~600	5	Hiccup	TRIAC / PWM/Analog	External	145	SOT23-6
JW1251A	External	18~60	0.5	Hiccup	TRIAC / PWM/Analog	External	145	ESOP8
JW1255O	External	12~400	5	Hiccup	TRIAC / PWM/Analog	Internal	145	SOT23-6
JW12555B	Internal	25~60	1.5	Hiccup	TRIAC / PWM/Analog	Internal	150	TO-252
JW12557C	Internal	25~150	0.5	Hiccup	TRIAC / PWM/Analog	Internal	150	ESOP8
JW12558A	Internal	25~60	0.5	Hiccup	TRIAC / PWM/Analog	Internal	150	ESOP8
JW12558C	Internal	25~150	0.5	Hiccup	TRIAC / PWM/Analog	Internal	150	ESOP8
JWM362	Internal	/	0.06	N	TRIAC / PWM/Analog	External	N	SOT23-3
JWM367	Internal	/	0.06	N	TRIAC / PWM/Analog	External	N	SOT23-3
JWM368	Internal	/	0.18	N	TRIAC / PWM/Analog	External	N	SOT89-3
JWM369	Internal	/	0.24	N	TRIAC / PWM/Analog	External	N	SOT89-3

Linear Solution								
P/N	MOS Channels	V _{IN} (V)	I _{max} I _{OUT} (mA)	PF	Dimming	Constant Power	OTP	Package
JWB1981	1	230	100	>0.5	N	N	140	HSOP7
JWB1981L	1	230	60	>0.5	N	N	150	HSOP7
JWB1981T	1	230	100	>0.5	N	N	115	HSOP7
JW19813L	1	230	60	>0.5	N	N	150	SOT89-3
JW19818L	1	230	60	>0.5	N	N	150	ESOP8
JW19813	1	230	100	>0.5	N	N	140	SOT89-3
JW19818	1	230	100	>0.5	N	N	140	ESOP8
JW19819	2	230	100	>0.5	N	N	140	ESOP8
JW19818C	1	230	100	>0.5	N	N	150	ESOP8
JW19818T	1	230	100	>0.5	N	N	115	ESOP8
JW19828	1	120	300	>0.5	PWM, Analog, TRIAC	Y	150	ESOP8
JW1691H	1	230	150	>0.5	PWM, Analog, TRIAC	Y	150	SOT89-3 / TO252
JW1691D	2	230	150	>0.5	PWM, Analog, TRIAC	Y	150	ESOP8
JWB19818	2	120/220	100	>0.5	N	Y	150	HSOP8
JWB19818L	2	120/220	100	>0.5	N	Y	150	HSOP8
JWB19819	2	140-260	100	>0.5	N	N	150	HSOP8
JWB1698D	2	127/220	80	>0.7	N	Y	150	HSOP8
JW1985	3	100-300	100	>0.9	N	Y	150	ESOP8
JW1983	4	120/220	100	>0.9	N	Y	150	ESOP8
JW19836	4	120/220	100	>0.9	N	Y	150	ESOP16
JW19838	4	120/220	100	>0.9	PWM, Analog	Y	150	ESOP16
JW18220	1	120/220	500	>0.5	PWM, Analog	N	120/150	SOT23-6
JW18221	1	120/220	60	>0.5	PWM, Analog	N	120/150	ESOP8
JW18222	2	120/220	60	>0.5	PWM, Analog	N	120/150	ESOP8
JWB18226	2	120/220	60	>0.5	PWM, Analog	N	150	HSOP8
JW1857	3	10~60	400	>0.5	PWM	N	N	ESOP8
JW1882	2	230	90	>0.5	ON/OFF CCT/DIM	Y	150	ESOP8

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