



选型手册

公司简介 Introduction

杰华特微电子成立于2013年，是一家快速成长的高性能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、LED驱动、电池管理等产品线，应用范围涉及计算机、工业控制、网络通讯、服务器与数据中心、汽车电子、照明、消费类电子、家用电器等众多领域。

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

高性能数模混合模拟芯片 (High performance mixed digital-analog chip)



High efficiency power structure



Advanced IC and package design



Cutting-edge BCD process for power ICs



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Switching DCDC Power Supply

Step-down Converter												
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
JW5250S	1	2.7~6	1	0.6	40	1500	N	Internal	PFM	Y	COT	SOT23-5 / SOT563
JW5250A	1	2.7~6	1	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
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
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
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
JW5710	2	3.3~10	0.4	1.8~3.3	0.4	1000	Y	Internal	PFM	Y	COT	DFN3X2-12
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
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
JW5025	1	4.6~20	3	0.923	55	340	N	Adjustable	PFM	Y	PCM	ESOP8
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
JW5057C	1	4.5~16	3	0.6	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
JW5058S	1	4.5~18	3	0.6	150	1000	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
JW5093	1	4.5~18	3	0.8	140	600	N	Internal	PFM	Y	COT	SOT563
JW5093H	1	4.5~18	3	0.8	140	1000	N	Internal	PFM	Y	COT	SOT563
JW5093F	1	4.5~18	3	0.8	140	600	N	Internal	FCCM	Y	COT	SOT563
JW5093HF	1	4.5~18	3	0.8	140	1000	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
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
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

Step-down Converter												
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
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
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
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
JW5121	1	4.5~60	2	0.8	130	100~2000	Y	Internal	PFM	N	PCM	ESOP8
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
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

LNB Power Supply								
P/N	Protocol	V _{IN} (V)	I _{OUT} (A)	V _{OUT} (V)	Programmable Current Limit	22kHz Tone Signal	Cable Compensation	Package
JW4002	DiSEqC 1.x	8~14	0.55	14.2/19.3	-	External	Y	ESOP8
JW4005	DiSEqC 1.x	4.5~14	1	13.5/18.5/14.5/19.5	Y	External	Y	ESOP8
JW4005H	DiSEqC 1.x	4.5~14	0.6	14.1/19.2	-	External	N	TSOT23-6
JW4005H	DiSEqC 1.x	4.5~14	0.6	14.1/19.2	-	External	Y	TSOT23-6

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	6~75	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)
JW3702	Buck-Boost	3~24	2.4~24	-	150~1200	115/35	QFN4X4-32	Bidirectional Controller with I2C Interface

Step-up Converter												
P/N	Regulated Outputs	V _{IN} (V)	V _{OUT} (V)	Max. Switch Current (A)	I _Q (uA)	V _{FB} (V)	F _{SW} (kHz)	Power Good	Soft Start	Type	Package	
JW5510	1	3~20	4~20	10	65	0.9	400	N	Internal	Synchronous Converter	QFN3X4-15	

Buck-Boost Converter									
P/N	V _{IN} (V)	V _{OUT} (V)	I _Q (uA)	F _{SW} (kHz)	V _{FB} (V)	Max Switch Current (A)	Type	Package	
JW3651	3~21	0.9~20	50	450	0.9	7	Converter	QFN3X4-15	

DC Input Lighting Product							
P/N	V _{IN} (V)	Topology	Switch Current Limit	Frequency	Dimming	Sync	Package
JW1120	4.5~20	Buck	1.7A (Max Duty)	1MHz	PWM / Analog	Y	TSOT23-6
JW1123	4.5~28	Buck	2A	600K	PWM / Analog	Y	SOT23-6
JW1130H	4.5~40	Buck / Boost / Buck-Boost	2A peak	Constant 2us t _{off}	PWM / Analog	N	ESOP8 / SOT23-6

Offline and Isolated Power

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
JW7700AC	40	15	5	2.4	DCM, QR	SOP8
JW7700EC	40	20	5	2	DCM, QR	SOP8
JW7703D	45	10	5	3	DCM, QR	SOP8
JW7703DC	45	10.5	5	3	DCM, QR	SOP8
JW7707C	60	13	5~12	2.4	DCM, QR	SOP8
JW7707D	60	10	5~12	3	DCM, QR	SOP8
JW7707F	50	7	5	3.4	DCM, QR	SOP8
JW7719	100	20	5~20	2	CCM, CrCM, 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
JW77198C	80	20	5~15	2	CCM, CrCM, DCM, QR	SOP8
JW77186B	60	13	3~12	2.4	CCM, CrCM, DCM, QR	SOP8
JW7715	80	External	3~15	-	CCM, CrCM, DCM, QR	SOT23-6
JW7716	150	External	5~20	-	CCM, CrCM, DCM, QR	SOT23-6
JW7716A	200	External	3~20	-	CCM, CrCM, DCM, QR	SOT23-6
JW7726B	140	External	3~20	-	High Frequency; CCM, CrCM, DCM, QR,ACF	SOT23-6
JW7726BL	150	External	3~20	-	CCM, CrCM, DCM, QR,ACF	SOT23-6

ACDC Primary-side Regulation

P/N	Max Power (W)	PSR/SSR	MOSFET Rating (V)	R _{DS(on)} (Ω)	CV/CC Regulation	F _{MAX} (kHz)	Cable Compensation	Standby Power (mW)	Package
JW1501A	12	PSR	600	3.6	±5%	70	Y	<75	SOP8
JW1501B	15	PSR	650	2.1	±5%	70	Y	<75	SOP8
JW1502	24	PSR	External	External	±5%	70	Y	<75	SOT23-6
JW1550	200	SSR	External	External	-	External Setting	-	<75	QFN4x4-24

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 / TO-92
JW1530C	500	15	200	5	30	<30	SOT23-3 / TO-92
JW1531O	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
JW1532B	650	6	500	12/18	65	<30	SOP8

Isolated DCDC

P/N	V _{IN} (V)	Topology	Max Power(W)	R _{DS(ON)} (Ω)	F _{MAX} (kHz)	Soft Start	Features	Package
JW3510	3~42	Flyback	6	0.5	430	Internal	Opto-Free, EN control	SOT23-5
JWH3530	18~75	Active Clamp Forward	300	External	External Setting	Programmable	Support Voltage Mode and Current Mode	QFN4x4-24

ACDC Special IC

P/N	Function	Breakdown Voltage(V)	Source Current @V _{CC} =10V	V _{CC} Voltage(V)	Package
JW7921	N-JFET	600	4mA	27	SOT23-3

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-FePO4	Stand-alone	QFN3x4-15
JW3655E	1~4	Switch-Mode Buck-boost	3	21	24	3~21	N	Li-Ion, Li-Polymer, Li-FePO4	Stand-alone	QFN3x4-15
JW3665	1	Linear	1	7.5	18	4.2	N	Li-Ion, Li-Polymer, Li-FePO4	Stand-alone	DFN2x2-8
JW3665A	1	Linear	1	7.5	18	4.35	N	Li-Ion, Li-Polymer, Li-FePO4	Stand-alone	DFN2x2-8
JW4054	1	Linear	0.5	7.5	18	4.2	N	Li-Ion, Li-Polymer, Li-FePO4	Stand-alone	SOT23-5
JW4054A	1	Linear	0.5	7.5	18	4.35	N	Li-Ion, Li-Polymer, Li-FePO4	Stand-alone	SOT23-5
JW4056	1	Linear	1	7.5	18	4.2	N	Li-Ion, Li-Polymer, Li-FePO4	Stand-alone	ESOP-8
JW4056A	1	Linear	1	7.5	18	4.35	N	Li-Ion, Li-Polymer, Li-FePO4	Stand-alone	ESOP-8
JW3702	1~4	Switch-Mode Buck-boost	12.75 (RCS=10mΩ)	24	28	2.4~24	Y	Li-Ion, Li-polymer, Li-FePO4	I2C	QFN4x4-32

Battery Protection

P/N	Cell Number	Support Balance	Support Cascade	Comprehensive Protection	Operation Voltage	Output Mode	Package	Protection Level
JW3311-XXX	8~10	N	Y	Over/Under-voltage; Over-current; Over/Under-temperature; Open-wire	6V~60V	Charge and Discharge driver	TSSOP-24	1
JW3317-XXX	5~7	N	Y	Over/Under-voltage; Over-current; Over/Under-temperature; Open-wire	6V~60V	Charge and Discharge driver	TSSOP-24	1
JW3312-XXX	3~5	Y	N	Over/Under-voltage; Over-current; Over/Under-temperature; Open-wire	5V~35V	Charge and Discharge driver	TSSOP-20	1
JW3318-XXX	3~5	Y	Y	Over/Under-voltage; Over-current; Over/Under-temperature; Open-wire	5V~35V	Charge and Discharge driver	TSSOP-20	1
JW3313-XXX	3	N	N	Over/Under-voltage; Over-current; Over/Under-temperature; Open-wire	3V~25V	Charge and Discharge driver	MSOP10	1
JW3313S-XXX	3	N	N	Over/Under-voltage; Over-current; Open-wire	3V~25V	Charge and Discharge driver	SOP8	1
JW3410-XXX	2~5	N	N	Over-voltage;	3V~25V	Charge driver	MSOP8	2
JW3411	6~10	N	Y	Over-voltage; Over/Under-temperature	6V~50V	Charge driver	TSSOP-20	2

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

Power Bank

P/N	Charge Current (A)	Discharge Current (A)	Battery Voltage (V)	Fuel Gauge	Torch	BC1.2	Samsung	Apple	Package
JW3631	2.5	3.1	4.2 / 4.35	1,3,4	Y	Y	Y	Y	QFN4x4-24
JW3633	2	2.4	4.2 / 4.35	1,3,4	Y	Y	Y	Y	QFN4x4-24

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
JW7110	2	0.7~5.5	6	80	External	Active High	N	N	N	DFN3x2-14
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
JW7115-1	1	2.7~5.5	1	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115-2	1	2.7~5.5	2	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-1	1	2.7~5.5	1	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7115A-2	1	2.7~5.5	2	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
JW7111	1	2.7~5.5	2.2	100	Internal	Active High	Y	Y	Y	SOT23-6 / DFN2x2-6
JW7111A	1	2.7~5.5	2.2	100	Internal	Active Low	Y	Y	Y	SOT23-6 / DFN2x2-6
JW7105	1	2.7~5.5	2.2	100	Internal	Active High	N	Y	Y	SOT23-5
JW7105A	1	2.7~5.5	2.2	100	Internal	Active Low	N	Y	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}	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	Hotsw ap, ORing	1	External	10~80	-	1.1	External	Y	Y	Y	TSSOP16
JW7221	Hotsw ap	1	External	9~80	-	0.51	External	Y	Y	Y	MSOP10
JW7222	Hotsw ap	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
JW7805	1.8~5.5	300	6	1.2V / 1.35V / 1.5V / 1.8V / 2.2V / 2.5V / 2.7V / 2.8V / 2.9V / 3.0V / 3.3V / 4.2V / 5.0V 1V / 1.2V / 1.5V / 1.8V / 2.1V / 2.5V / 2.7V / 2.8V / 2.9V / 3.0V / 3.3V / 4.2V	Enable, OTP, OCP, Output discharge, Bypass function	DFN1x1-4 SOT23-5

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

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
JW7951	3~20	3	60	Y	40	Wireless charger, Full-Bridge Power stage	QFN3x4-15 / ETSSOP20
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++

Electric Shock Protection

P/N	R _{DS(ON)} (Ω)	Breakdown Voltage(V)	Power@175-277Vac	Power@90-277Vac	Detection Mode	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

USB Charging Controller

P/N	Input Voltage Range	Role	CC/CV	Blocking NMOS Control	Protocol					Application	Package
					BC1.2	Apple	AFC	QC4.0+	PD3.0/PPS		
JW3116A	3V~20V	DFP	Y	Y	Y	Y	Y	Y	Y	Adaptor	QFN4x4-16

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	N	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
JW1965A	Boost	0.9	Y	6.8	650	450V / 40mA	450V / 30mA	N	Internal	Y	CC	SOP7
JW1965AC	Boost	0.9	Y	5.5	500	420V / 50mA	450V / 40mA	N	Internal	Y	CC	SOP7
JW1965B	Boost	0.9	Y	1.8	600	450V / 80mA	450V / 60mA	N	Internal	Y	CC	SOP7
JW1965B	Boost	0.9	Y	1.8	600	450V / 100mA	450V / 80mA	N	Internal	Y	CC	DIP7
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
JW1965C	Boost	0.9	Y	1	600	450V / 120mA	450V / 100mA	N	Internal	Y	CC	SOP7
JW1965C	Boost	0.9	Y	1	600	450V / 140mA	450V / 120mA	N	Internal	Y	CC	DIP7
JW19658C	Boost	0.9	Y	1	600	450V / 140mA	450V / 120mA	N	Internal	Y	CC	DIP7
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
JW1765	High-side Buck	0.9	N	External	External	100W	80W	N	External	Y	CC	SOT23-6
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
JW1969E	Low -side Buck	0.9	Y	1.5	500	90V / 320mA	70V / 320mA	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
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
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
JW1725O	High-side Buck-Boost	0.9	N	External	External	120V / 450mA	120V / 450mA	N	External	Y	CC	SOT23-6
JW1813B	Low -side Buck-Boost	0.9	Y	1.8	600	90V / 200mA	90V / 180mA	N	Internal	Y	CC	SOP7
JW1760	High-side Buck	0.5	N	External	External	100W	80W	N	N	Y	CC	SOT23-5
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
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
JW19987A	Low -side Buck	0.5	Y	8	500	100V / 240mA	70V / 240mA	PWM	N	Y	CC	SOP7
JW19987B	Low -side Buck	0.5	Y	4.4	500	100V / 300mA	70V / 300mA	PWM	N	Y	CC	SOP7
JW1992B	Low -side Buck	0.5	Y	4.4	500	100V / 350mA	70V / 350mA	N	N	Y	CC	DIP7
JW1992C	Low -side Buck	0.5	Y	2.9	500	100V / 400mA	70V / 400mA	N	N	Y	CC	SOP7
JW1992C	Low -side Buck	0.5	Y	2.9	500	100V / 500mA	70V / 500mA	N	N	Y	CC	DIP7
JW1992D	Low -side Buck	0.5	Y	2.2	500	100V / 500mA	70V / 500mA	N	N	Y	CC	SOP7
JW1992D	Low -side Buck	0.5	Y	2.2	500	100V / 600mA	70V / 600mA	N	N	Y	CC	DIP7
JW1994M	Low -side Buck	0.5	Y	13	500	100V / 180mA	70V / 180mA	N	N	Y	CC	SOP8
JW1994A	Low -side Buck	0.5	Y	8	500	100V / 240mA	70V / 240mA	N	N	Y	CC	SOP8
JW1994B	Low -side Buck	0.5	Y	5.5	500	100V / 300mA	70V / 300mA	N	N	Y	CC	SOP8
JW1994C	Low -side Buck	0.5	Y	2.8	500	100V / 400mA	70V / 400mA	N	N	Y	CC	SOP8
JW1994D	Low -side Buck	0.5	Y	1.8	500	100V / 500mA	70V / 500mA	N	N	Y	CC	DIP8

Isolated Switching Regulator											
P/N	Topology	PF	HV-JFET	R _{DS(ON)} (Ω)	Breakdown Voltage	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	External	CC	SOP8
JW1660B	Flyback	0.5	Y	16	650	10W	8W	N	N	CC	SOP7
JW16607F	Flyback	0.5	Y	1.8	650	40W	30W	N	N	CC	SOP7

Ripple Remover									
P/N	MOS	V _{IN} (V)	Max I _{OUT} (A)	OVP/SCP/OTP	Dimming	COMP	OTP	Package	
JW1221	External	18~600	5	Hiccup	N	External	145	SOT23-6	
JW1221A	External	18~600	5	Hiccup	N	External	145	SOT23-6	
JW1237	Internal	18~150	0.5	Hiccup	N	External	145	ESOP8	
JW1237A	Internal	18~60	0.5	Hiccup	N	External	145	ESOP8	
JW1237C	Internal	18~600	0.1	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	
JWM362	Internal	/	0.06	N	TRIAC / PWM/Analog	External	N	SOT23-3	
JWM367	Internal	/	0.06	N	TRIAC / PWM/Analog	External	N	SOT23-3	

Dimmable Solution										
P/N	Topology	MOSFET	V _{IN} (V)	Power@175-264Vac	Power@90-140Vac	Dimming	COMP	OTP	Package	
JW1881A	BUCK	Internal	90~260	70V/180mA	90V / 180mA	Switch ON / OFF Dimming	N	150	SOP7	
JW1881B	BUCK	Internal	90~260	70V/300mA	90V / 300mA	Switch ON / OFF Dimming	N	150	SOP7	
JW16979C	Linear	Internal	120	-	130V / 50mA	TRIAC	N	150	ESOP8	
JW16979T	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	

Linear Solution									
P/N	LED Strings	V _{IN} (V)	Max I _{OUT} (mA)	Integrated MOSFET	Dimming	COMP	OTP	Package	
JWB19818	2	120/220	60	Y	N	N	150	HSOP8	
JWB18226	2	120/220	60	Y	PWM, Analog	N	150	HSOP8	
JWB1981	1	230	100	Y	N	N	140	HSOP7	
JWB1981T	1	230	100	Y	N	N	115	HSOP7	
JW19813	1	230	100	Y	N	N	140	SOT89-3	
JW19818	1	230	100	Y	N	N	140	ESOP8	
JW19818T	1	230	100	Y	N	N	115	ESOP8	
JW19819	2	230	100	Y	N	N	140	ESOP8	
JW1691H	1	230	150	Y	PWM, Analog, TRIAC	N	150	SOT89-3 / SOT223 / TO252	
JW1691D	1	230	150	Y	PWM, Analog, TRIAC	N	150	ESOP8	
JW19828	1	120	60	Y	PWM, Analog, TRIAC	N	150	ESOP8	
JW1983	4	120/220	100	Y	N	Internal	150	ESOP8	
JW19836	4	120/220	100	Y	N	Internal	150	ESOP16	
JW19838	4	120/220	100	Y	PWM, Analog	Internal	150	ESOP16	
JW1822O	1	120/220	500	N	PWM, Analog	N	P	SOT23-6	
JW18221	1	120/220	60	Y	PWM, Analog	N	P	ESOP8	
JW18222	1	120/220	30	Y	PWM, Analog	N	P	ESOP8	
JW1857	3	10~60	400	Y	PWM	N	N	ESOP8	
JW18573	3	10~40	400	Y	PWM	N	N	ESOP8	

Low Voltage Lighting Product								
P/N	V _{IN} (V)	Topology	Switch Current Limit	Frequency	Dimming	Sync	Package	
JW1120	4.5~20	Buck	1.7A (Max Duty)	1MHz	PWM / Analog	Y	TSOT23-6	
JW1123	4.5~28	Buck	2A	600K	PWM / Analog	Y	SOT23-6	
JW1130H	4.5~40	Buck / Boost / Buck-Boost	2A peak	Constant 2us t _{off}	PWM / Analog	N	ESOP8 / SOT23-6	