



Selection Guide

2026-Q4

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EPD Panel Power

Part No.	Key Features	VIN (V)	VOUT (V)	I Limit (mA)	Freq. (KHz)	Iq (μA)	Is (μA)	OCP	OVP	Package
FP9931	Integrated Multi-Channel DC-DC Converters for EPD	2.9~5.5	VPOS (7~15V) VNEG (-7~-15V) VGH (15~30V) VGL (-15~-25V) VCOM (1ch, 8bit)	VPOS=350mA VNEG=350mA	1MHz	1500	0.1	V	V	TQFN 5*5-40L
FP9937 NEW	Integrated Multi-Channel DC-DC Converters for EPD	2.9~9.5	VPOS1/VNEG1 (±3.5~±12V) VPOS2/VNEG2 (±6~±17V) VPOS3/VNEG3 (±14~±27.5V) VGH (+10~+40V) VGL (-15~-40V) VCOM (0~-5V, 8bit)	VPOS1/VNEG1 = 200mA VPOS2/VNEG2 = 300mA VPOS3/VNEG3: 300/450mA	1000	3000	4(1Cell) / 8(2Cells)	V	-	TQFN 7*7-64L
FP9961 NEW	6 Channel LED Driver with I2C Interface for EPD Panel Front-light Application	2.9~9	VIN to 42V	1500~3000 mA	1000	300 (Sleep, I2C alive)	3	V	V	WLCSP-36 BALL

White LED Driver

Part No.	VIN (V)	VOUT (V) Max.	LED Numbers Max.	Driving Type	Brightness Control	Eff. (%) Max.	Freq. (Hz)	OVP	Package
FP6395	2.5~5.7	6	2	Buck	PWM	95	1.5M	V	TDFN 1.6*1.6-6L TDFN 2*2-6L SOT 23-5L
FP6755	2.5~5.5	29	8	Boost	PWM	87	1.3M	V	SOT 23-6L TDFN 2*2-6L
FP6757	2.5~5.5	29	8	Boost	PWM	87	1.3M	V	SOT 23-6L TDFN 3*3-6L
FR9708/A	2.8~24	24	8	Buck, Boost, Buck-Boost	PWM or Linear	95	1.2M	V	SOT 23-6L

HV Buck DC/DC Converter

Part No.	Key Features	Type	VIN (V)	VOUT (V)	IOUT (mA)	Eff.% Max.	Freq. (KHz)	Iq (μA)	Is (μA)	Shut Down	OCP	Package
FR9204	18V, 2.5A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.8V to 8V	2500	94	500	300	0.1	V	V	FC SOT 563-6L
FR9204F	18V, 2.5A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.8V to 8V	2500	94	500	300	0.1	V	V	FC SOT 563-6L
FR9204FH	18V, 2.5A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.768V to 8V 0.8V to 8V	2500	94	1200	300	0.1	V	V	FC TSOT 23-6L FC SOT 563-6L
FR9205	18V, 2A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.765V to 8V	2000	94	850	250	1	V	V	SOT 23-6L
FR9205F	18V, 2A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.765V to 8V	2000	94	850	300	1	V	V	SOT 23-6L
FR9206	18V, 3A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.768V to 8V 0.8V to 8V	3000	94	500	300	0.1	V	V	FC SOT 563-6L FC TSOT 23-6L
FR9206F	18V, 3A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.768V to 8V 0.8V to 8V	3000	94	500	300	0.1	V	V	FC SOT 563-6L FC TSOT 23-6L
FR9206FH	18V, 3A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.768V to 8V	3000	94	1200	300	1	V	V	FC TSOT 23-6L
FR9207	18V, 4A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.76V to 8V	4000	94	500	400	3	V	V	FC TSOT 23-6L
FR9207F	18V, 4A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.76V to 8V	4000	94	500	400	3	V	V	FC TSOT 23-6L
FR9208F	18V, 5A Synchronous Step-Down 85T DC/DC Converter	HV Sync.	4.5~18	0.76~8V	5000	94	500	400	1	V	V	FC TSOT 23-6L
FR9208	18V, 5A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.76~8V	5000	94	500	400	0.1	V	V	FC TSOT 23-6L
FR9209	16V, 12A Synchronous Step-Down DC/DC Converter with Adjustable Current Limit, Programmable Frequency and Voltage Tracking	HV Sync.	2.7~16	0.6V to 5.5V	12000	94	800	300	1	V	V	FC TQFN 3*4-21L
FR9212A	18V, 2A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.768V to 8V	2000	94	600	270	12	V	V	SOT 23-6L
FR9212B	18V, 2A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.6V to 8V	2000	94	600	270	12	V	V	SOT 23-6L
FR9212AF	18V, 2A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.768V to 8V	2000	94	600	500	12	V	V	SOT 23-6L
FR9212BF	18V, 2A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.6V to 8V	2000	94	600	500	12	V	V	SOT 23-6L
FR9835A	28V, 5A Asynchronous Step-Down DC/DC Converter	HV ASync.	3.5~28	0.75 to ~12	5000	92	Adj 200~ 2500	100	1.3	V	V	SOP-8L-EP

HV Buck DC/DC Converter (continued)

Part No.	Key Features	Type	VIN (V)	VOUT (V)	IOUT (mA)	Eff.% Max.	Freq. (KHz)	Iq (μA)	Is (μA)	Shut Down	OCP	Package
FR9837A	40V, 5A Asynchronous Step-Down DC/DC Converter	HV ASync.	3.5~40	0.75 to ~12	5000	92	Adj 200~2500	100	1.3	V	V	SOP-8L-EP
FR9839A	40V, 5A Asynchronous Step-Down DC/DC Converter	HV ASync.	3.5~40	0.75~12	5000	92	Adj 200~2500	100	1.3	V	V	SOP-8L-EP
FR9608	28V, 3A, 340KHz Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~28	0.925~16V	3000	93	340	3000	2	V	V	SOP-8L-EP
FR9609	28V, 3A, 340KHz Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~28	0.925~16V	3000	93	340	500	2	V	V	SOP-8L-EP
FR9850	18V, 2A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.6V to 8V	2000	94	850	300	1	V	V	SOT 23-6L
FR9850F	18V, 2A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.6V to 8V	2000	94	850	300	1	V	V	SOT 23-6L
FR9854	18V, 4A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.765~8V	4000	94	630	600	1	V	V	SOP-8L-EP TQFN 3*3-16L
FR9855	18V, 5.5A Synchronous Step-Down DC/DC Converter, External SS	HV Sync.	4.5~18	0.765~8V	5500	94	630	600	1	V	V	SOP-8L-EP
FR9855B	18V, 5.5A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.6~8V	5500	94	630	600	1	V	V	TDFN 3*3-10L
FR9856B	18V 6A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.765~8V	6000	94	650	600	1	V	V	SOP-8L-EP
FR9863	28V, 3A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~28	0.596V to 12V	3000	94	500	150	3	V	V	FC TSOT 23-6L
FR9863F	28V, 3A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~28	0.596V to 12V	3000	94	500	150	3	V	V	FC TSOT 23-6L

LV Buck DC/DC Converter

Part No.	Key Features	Type	VIN (V)	VOUT (V)	IOUT (mA)	Eff.% Max.	Freq. (KHz)	Iq (μA)	Is (μA)	Shut Down	OCP	Package
FP6311	High Efficiency 5.5V 1A Synchronous Step Down Converter	Low V Sync.	2.6~5.5	0.6~Vin	1000	95	1500	60	0.1	V	V	SOT 563-6L
FP6311F	High Efficiency 5.5V 1A Synchronous Step Down Converter	Low V Sync.	2.6~5.5	0.6~Vin	1000	95	1500	200	0.1	V	V	SOT 563-6L
FP6312	High Efficiency 5.5V 2A Synchronous Step Down Converter	Low V Sync.	2.6~5.5	0.6~Vin	2000	95	1500	60	0.1	V	V	SOT 563-6L
FP6312F	High Efficiency 5.5V 2A Synchronous Step Down Converter	Low V Sync.	2.6~5.5	0.6~Vin	2000	95	1500	250	0.1	V	V	SOT 563-6L

LV Buck DC/DC Converter (continued)

Part No.	Key Features	Type	VIN (V)	VOUT (V)	IOUT (mA)	Eff.% Max.	Freq. (KHz)	Iq (μA)	Is (μA)	Shut Down	OCP	Package
FP6335	High Efficiency 6V 1.2A Synchronous Step Down Converter	Low V Sync.	2.5~6.0	0.6~Vin	1200	95	1500	400	0.1	V	V	SOT 23-5L SOT 23-6L TDFN 2*2-6L
FP6356	High Efficiency 1MHz 2A Synchronous Step Down Converter	Low V Sync.	2.5~6.0	0.6~Vin	2000	95	1000	400	0.1	V	V	SOT 23-5L SOT 23-6L
FP6359	High Efficiency 1MHz Synchronous Step Down DC/DC Converter	Low V Sync.	2.7~6	0.6~Vin	3000	95	1000	5000	0.1	V	V	SOT 23-6L
FP6373A	High Efficiency 1MHz 3A Synchronous Step Down DC/DC Converter	Low V Sync.	2.7~6	0.6~Vin	3000	96	1000	80	0.1	V	V	SOT 23-6L
FP6381	High Efficiency 1.5MHz 1.5A Synchronous Step Down Converter	Low V Sync.	2.5~6.0	0.6~Vin	1500	95	1500	80	0.1	V	V	TDFN 2*2-6L
FP6392	High Efficiency 1MHz 3.5A Synchronous Step Down Regulator	Low V Sync.	2.7~6	0.6~Vin	3500	96	1000	100	0.1	V	V	TDFN 3*3-10L
FP6385	High Efficiency 1MHz 3.5A Synchronous Step Down DC/DC Converter	Low V Sync.	2.7~6	0.6~Vin	3500	96	1000	80	0.1	V	V	FC SOT 23-6L
FP6396	High Efficiency 1.5MHz 1.2A Synchronous Step Down Converter	Low V Sync.	2.5~6.0	0.6~Vin	1200	95	1500	30	0.1	V	V	SOT 23-5L SOT 23-6L TSOT 23-5L
FP6397	High Efficiency 1MHz 2A Synchronous Step Down Converter	Low V Sync.	2.5~6.0	0.6~Vin	2000	95	1000	40	0.1	V	V	SOT 23-5L SOT 23-6L

Boost DC/DC Converter

Part No.	Key Features	VIN (V)	VOUT (V)	I Limit (mA)	Eff.% Max.	Freq. (KHz)	Iq (μA)	Is (μA)	Shut Down	OTP	Package
FP6715	5V, 2.5A, 550KHz High Efficiency Low Ripple Synchronous Step-Up Converter	1.9~Vout	1.9~5.25	2500	93	550	25	1	V	V	SOT 23-6L
FP6722	Low Quiescent Current Boost Converter	0.75~5.5	1.8~5.5	500	94	-	0.5 (VIN) / 5.5 (VOUT)	0.2	V	V	SOT 23-6L
FP6726	Low Quiescent Current Boost Converter	0.75~5.5	1.8~5.5	250	96	-	3 (VIN) / 0.5 (VOUT)	0.2	V	V	SOT 23-6L
FP6730	1MHz 2.5A Current-Mode Step-Up DC/DC Converter	3~24	Vin~24	2500	93	1000	250	0.1	V	V	SOT 23-5L SOT 23-6L
FP67380	1Mhz 2.5A Current-Mode Step-Up DC/DC Converter	3~24	Vin~24	2500	95	1000	250	0.1	V	V	TDFN 2*2-6L

Boost DC/DC Controller

Part No.	Key Features	VIN (V)	VOUT (V)	I Limit (mA)	Eff.% Max.	Freq. (KHz)	Iq (μA)	Is (μA)	Shut Down	OTP	Package
FP6770	Low Noise, DC/DC Charge Pump Regulator	2.7~5	5	300	90	2000	3000	0.01	V	V	SOT 23-6L TSOT 23-6L TDFN 2*2-6L

Li-ion Charger

Part No.	VIN (V)	IOUT Max. (A)	VOUT TYP. (V)	Vol. Accy. (%)	VSEN	Temp. Sense	Safety Timer	Package
FP6908	4.5~28	1	4.2 ; 4.35	1	V	v	V	SOP-8L-EP SOT 23-5L TDFN 2*2-8L

DDR5

Part No.	Application	VIN (V)	VOUT (V)	IOUT (mA)	Accuracy	Freq. (Hz)	Iq (μA)	OCP	OVP	Package
FP9968	DDR5, SO-DIMM & UDIMM	4.25~5.5	0.8V ~ 2.55V	6.5A	0.75%	750k ~ 1.5MHz	2300	V	V	FC TQFN 3*4-28L
FP9969 NEW	DDR5, SO-DIMM & UDIMM	4.25~5.5	0.8V ~ 2.55V	8.5A	0.75%	750k ~ 1.5MHz	1500	V	V	FC TQFN 3*4-28L

Low Dropout Regulator

Part No.	Key Features	IOUT (mA)	VIN (V)	Vdrop (mV)	VOUT (V)	Accuracy	Iq (μA)	Is (μA)	Shut Down	OTP	OCP	Package
FP6145	3A Ultra Low Dropout Linear Regulator	3000	1.2~5.5	240	ADJ	±1.25%	1000	5	V	V	V	SOP-8L-EP TDFN 3*3-10L
FP6145B	2A Ultra Low Dropout Linear Regulator	2000	1.2~5.5	240	ADJ	±1.25%	1000	10	V	V	V	SOP-8L-EP
FP6166	600mA Low Noise High PSRR LDO with Shutdown	600	2.0~5.5	890	ADJ	±2%	45	0.1	V	V	V	SOT 23-5L SOP-8L

Low Dropout Regulator (continued)

Part No.	Key Features	IOUT (mA)	VIN (V)	Vdrop (mV)	VOUT (V)	Accuracy	Iq (μA)	Is (μA)	Shut Down	OTP	OCP	Package
FP6183	300mA, Low Noise High PSRR LDO Regulator	300	1.75~5.5	160	0.9,1.0,1.1, 1.2, 1.8, 2.8, 2.5, 3.0, 3.3	±1%	2	0.1	V	V	V	UTDFN 1*1-4L
FP6185	300mA, Low Noise High PSRR LDO Regulator	300	1.75~5.5	180	1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3	±1%	2	0.1	V	V	V	SOT 23-5L
FP6186	300mA Low Noise LDO with Adjustable Output Function	300	1.7~5.5	200	ADJ	±1.25%	60	0.1	V	V	V	SOT 23-5L
FP6186A	600mA Low Noise LDO with Adjustable Output Function	600	1.7~5.5	400	ADJ	±1.25%	60	0.1	V	V	V	SOT 23-5L
FP6187	300mA, Low Noise High PSRR LDO Regulator	300	1.75~5.5	160	1.2, 1.8, 2.8, 3.0	±1%	2	0.1	V	V	V	SOT 23-5L UTDFN 1*1-4L
FP6168	300mA, Low Noise High PSRR LDO Regulator	300	1.9~5.5	160	1.0, 1.05, 1.1, 1.2, 1.5, 1.8, 2.2, 2.5, 2.8, 3.0, 3.3	±1%	10	0.1	V	V	V	SOT 23-5L UTDFN 1*1-4L
FP6169 NEW	300mA, Low Noise High PSRR LDO Regulator	300	1.8~5.5	160	1.0, 1.05, 1.1, 1.2, 1.5, 1.8, 2.2, 2.5, 2.8, 3.0, 3.3	±1%	6.5	0.1	V	V	V	WLCSP-4 BALL
FP6170 NEW	300mA, Low Noise High PSRR LDO Regulator	300	1.8~5.5	160	1.0, 1.05, 1.1, 1.2, 1.5, 1.8, 2.2, 2.5, 2.8, 3.0, 3.3	±1%	6.5	0.1	V	V	V	SOT 23-5L UTDFN 1*1-4L

Reset

Part No.	VIN (V)	Supply Current (uA)	VTH (V)	VTH. Accy. (%)	Low Iq (μA)	Reset Output	Circuit Type	Package
FP6805	1.5~6	1.5	2.2/2.3/2.6/2.7/2.8/2.9/ 3.1/4.0/4.4/4.6V/Adjust	±1	1.5/2.5	Active Low/High	Open-Drain	TSOT 23-3L TSOT 23-5L TSOT 23-6L TDFN 2*2-6L
FP6806	1.5~6	1.6	2.2/2.3/2.6/2.7/2.8/2.9/ 3.1/4.0/4.4/4.6V	±1	1.6/2.6	Active Low/High	Push-Pull	TSOT 23-3L TSOT 23-5L TSOT 23-6L

USB Power Switch

Part No.	Output Current (A)	Channel No.	VIN (V)	Current Limit Type (A)	RDS(ON) (mΩ)	Package
FP6861C	0.55, 0.7, 1, 1.1, 1.5, 2.1, 2.5, 3 (min)	1	2.7~5.5	0.775, 1, 1.25, 1.4, 1.75, 2.45, 2.95, 3.5	70	SOT 23-5L SOP-8L MSOP-8L
FP6861E-A	Adjustable	1	2.7~6	0.17~3.76	55	SOT 23-6L TDFN 2*2-6L
FP6861E- /E/F/H	0.7, 1.1, 1.5, 2.1 (min)	1	2.7~5.5	1, 1.4, 1.75, 2.45	100	SOT 23-5L SOP-8L
FP6861G	2.2, 2.56, 3.2 (min)	1	2.5~5.5	2.6, 3.0, 3.76	45, 70	FC SOT 23-5L MSOP-8L
FP6861J	Adjustable	1	2.7-6	0.17~3.76	35 55	FC TSOT 23-6L TDFN 2*2-6L SOT 23-6L

Motor Driver

Part No.	Key Features	VIN (V) Range	Output Current (mA)	Control Volt. Range (V) / Interface	Thermal Shut Down	Package
FP5502	Low-saturation, Low-voltage 1 channels Bi-directional Motor Driver (Micro-actuator Driver)	1.8~5.5	0~400	1.8~5.5	150C	SOT 23-6L
FP5532	Low-Voltage H-Bridge Motor Driver	0~11V	0~1800	1.8~6	160C	TDFN 2*2-8L