

DC/DC PWM IC

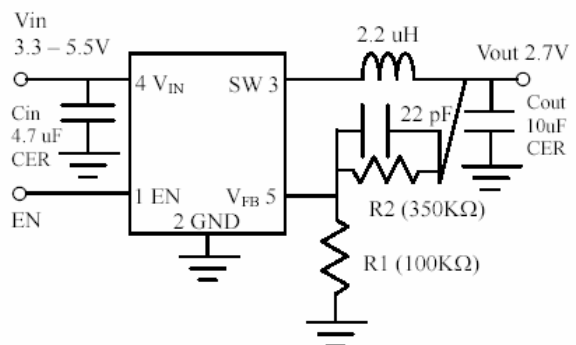
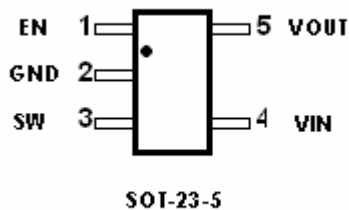
1.5MHz 600mA Synchronous Step-Down / Buck Regulator

Product ID	PWM	Output Current	V _{in} Volt	Package Type	V _{out} Volt	Order Information
EML3406	Buck Step Down	600mA	2.5 - 5.5	SOT-23-5	1.2	EML3406-12VF05GRR
					1.5	EML3406-15VF05GRR
					1.8	EML3406-18VF05GRR
					2.7	EML3406-27VF05GRR
					3.3	EML3406-33VF05GRR
					Adj.	EML3406-00VF05GRR

Pin configuration

Pin #	Pin Name	Function
1	EN	Enable Pin. Minimum 1V to enable the device. Maximum 0.5V to shut down the device. Do not leave this pin floating.
2	GND	Ground Pin.
3	SW	Switch Pin. Must be connected to Inductor. This pin connects to the drains of the internal main and synchronous power MOSFET switches.
4	V _{IN}	Input voltage Pin. Must be closely decoupled to GND pin with a 4.7μF or greater ceramic capacitor.
5	V _{FB} (Adjustable)	Feedback Pin. Receives the feedback voltage from an external resistive divider across the output.
	V _{OUT} (Fixed voltage)	Output Voltage Pin. An internal resistive divider divides the output voltage down for comparison to the internal reference voltage.

Package configuration



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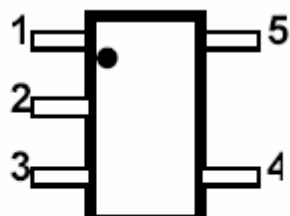
1.5MHz 600mA Synchronous Step-Down / Buck Regulator

Product ID	PWM	Output Current	V _{in} Volt	Package Type	V _{out} Volt	Order Information
EML9216	Buck Step Down	600mA	2.5 - 5.5	SOT-23-5	1.2	EML9216-12VF05GRR
					1.5	EML9216-15VF05GRR
					1.8	EML9216-18VF05GRR
					2.7	EML9216-27VF05GRR
					3.3	EML9216-33VF05GRR
					Adj.	EML9216-00VF05GRR

Pin configuration

Pin #	Pin Name	Function
1	V _{IN}	Input voltage Pin. Must be closely decoupled to GND pin with a 4.7μF or greater ceramic capacitor.
2	GND	Ground Pin.
3	EN	Enable Pin. Minimum 1V to enable the device. Maximum 0.5V to shut down the device. Do not leave this pin floating.
4	V _{FB} (Adjustable)	Feedback Pin. Receives the feedback voltage from an external resistive divider across the output.
	V _{OUT} (Fixed voltage)	Output Voltage Pin. An internal resistive divider divides the output voltage down for comparison to the internal reference voltage.
5	SW	Switch Pin. Must be connected to Inductor. This pin connects to the drains of the internal main and synchronous power MOSFET switches.

Package configuration



SOT-23-5

T_{JMAX}=125°C, θ_{JA}=250°C/W, θ_{JC}=90°C/W

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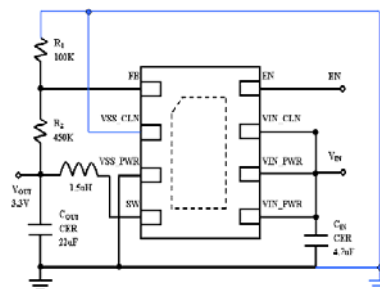
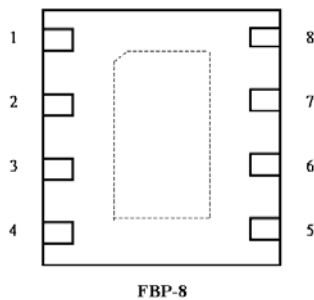
1.25MHz 1.5A Synchronous Step-Down / Buck Regulator

Product ID	PWM	Output Current	Vin Volt	Package Type	Vout Volt	Order Information
EML3416	Buck Step Down	1.5A	2.5 - 5.5	FBP-8		
					Adj.	EML3416-00BG08GRR
				TDFN-6		
					Adj.	EML3416-00FF06GRR

Pin Functions

Pin #	Pin Name	Function
1	V _{FB} (Adjustable)	Feedback Pin. Receives the feedback voltage from an external resistive divider across the output.
	V _{OUT} (Fixed voltage)	Output Voltage Pin. An internal resistive divider divides the output voltage down for comparison to the internal reference voltage.
2	VSS_CLN	Analog Ground Pin.
3	VSS_PWR	Power Ground Pin.
4	SW	Switch Pin. Must be connected to Inductor. This pin connects to the drains of the internal main and synchronous power MOSFET switches.
5, 6	V _{IN_PWR}	Power Input Pin. Must be closely decoupled to GND pin with a 4.7μF or greater ceramic capacitor.
7	V _{IN_CLN}	Analog Input Pin. Must be closely decoupled to GND pin with a 4.7μF or greater ceramic capacitor.
8	EN	Enable Pin. Minimum 1.3V to enable the device. Maximum 0.5V to shut down the device. Do not leave this pin floating.
Exposed pad		Connect to Ground.

Package configuration



DC/DC PWM IC

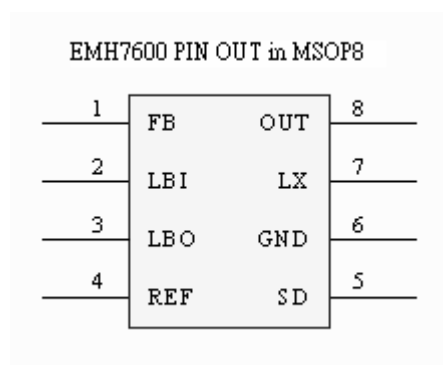
Battery Powered, High Efficiency Synchronous Step-Up / Boost Converter

Product ID	PWM	Output Current	Start-up Voltage	Hold Voltage	Package Type	Vout Volt	Order Information
EMH7600	Boost Step Up	500mA	0.83V	0.6V	MSOP-8	3.3/5.0 Adj.	EMH7600-00MA08GRR

Pin Functions

Pin Name	MSOP-8 Pin#	Function
FB	1	Connecting to OUT to get +3.3V output, Connecting to GND to get +5.0V output, Using resistor network to set the output voltage from +1.8V to +5.5V .
LBI	2	Low-battery comparator input. Internally set at +1.195V+50mV to trip
LBO	3	Open-drain low battery comparator output. Output is low when V_{LBI} is <1.195V. LBO is high impedance during shutdown.
REF	4	1.195V Output. In Case of driving load, Need R and C for stability
SD	5	Shutdown input. "1" is enabled and "0"=shutdown
GND	6	Ground Pin.
LX	7	Switch Pin. Must be connected to Inductor.
OUT	8	Output Voltage Pin. This also provides bootstrap power to the IC.

Package Configuration



DC/DC PWM IC

Battery Powered, High Efficiency Synchronous Step-Up / Boost Converter

Product ID	PWM	Output Current	Start-up Voltage	Hold Voltage	Package Type	Vout Volt	Order Information
EMH7601	Boost Step Up	500mA	0.83V	0.6V	SOT-23-5	3.3/5.0 Adj.	EMH7601-00VF05GRR

Pin Functions

Pin Name	SOT25 Pin #	Function
FB	5	Connecting to OUT to get +3.3V output, Connecting to GND to get +5.0V output, Using resistor network to set the output voltage from +1.8V to +5.5V .
$\overline{\text{SD}}$	4	Shutdown input. "1" is enabled and "0"=shutdown
GND	2	Ground Pin.
LX	3	Switch Pin. Must be connected to Inductor.
OUT	1	Output Voltage Pin. This also provides bootstrap power to the IC.

Package Configuration

EMH7601 Pin Out in SOT25

