

Table 8-1. Pulse-Dependent Mode Selection Settings

Mode/Sync Input	Mode	
> VMODE_H	FPWM with spread spectrum factory setting	
< VMODE_L	Auto mode with spread spectrum factory setting	
Synchronization Clock	SYNC mode	
VMODE_L	SYNC/MODE input voltage low level threshold	1 V
VMODE_H	SYNC/MODE input voltage high level threshold	1.8 V

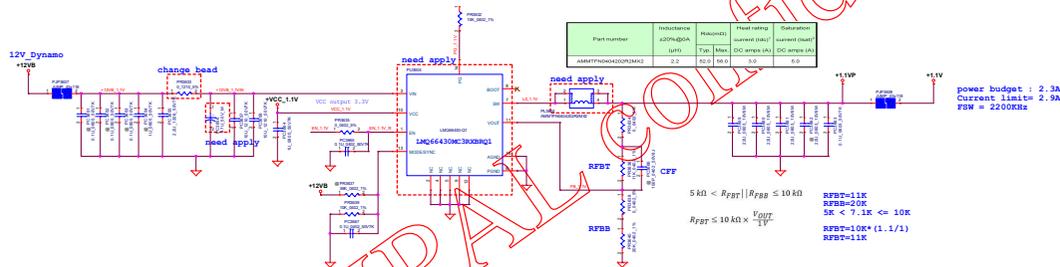
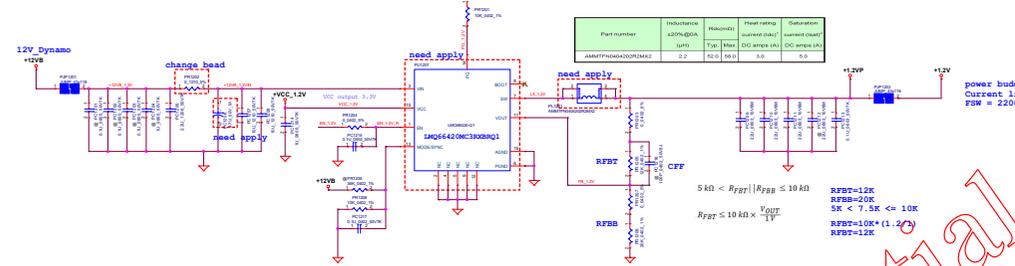
ENABLE (EN PIN)	Value	
VEN_WAKE	EN wakeup threshold	0.5 0.7 1 V
VEN_ENABLE	Precision enable rising threshold for VOUT	1.16 1.23 1.3 V
VEN_HYST	Enable hysteresis below VEN_ENABLE	0.3 0.35 0.4 V
IEN_LEAK	Enable pin input leakage current	10 nA

In some cases, an input UVLO level different than that provided internal to the device is needed. This can be accomplished by using the circuit shown in Figure 9-2. The input voltage at which the device turns on is designated as V<sub>UV</sub> while the turn-off voltage is V<sub>UVT</sub>. First, a value for R<sub>EXT</sub> is chosen in the range of 10 kΩ to 100 kΩ, then Equation 9 and Equation 10 are used to calculate R<sub>FBT</sub> and V<sub>UVT</sub>, respectively.



Figure 9-2. Setup for External UVLO Application

$$R_{EXT} = \left( \frac{V_{UV}}{V_{EN} - V_{UVT}} - 1 \right) \times R_{FBT} \quad (9)$$



Orderable Part Number (1) (2)	Output Current	Output Voltage	External Sync	F <sub>sw</sub>	Internal Capacitors	Spread Spectrum
LM264430M3RBRG1	3 A	3.3-V Fixed / Adjustable	Yes (PFM / FPWM Selectable)	Fixed 2.2 MHz	Yes	Yes
LM264420M3RBRG1(1)	3 A	5-V Fixed / Adjustable	Yes (PFM / FPWM Selectable)	Fixed 2.2 MHz	Yes	Yes
LM26420M3RBRG1(1)	2 A	3.3-V Fixed / Adjustable	Yes (PFM / FPWM Selectable)	Fixed 2.2 MHz	Yes	Yes
LM26420M3RBRG1(1)	2 A	5-V Fixed / Adjustable	Yes (PFM / FPWM Selectable)	Fixed 2.2 MHz	Yes	Yes
LM26420M3RBRG1	2 A	3.3-V Fixed / Adjustable	Yes (PFM / FPWM Selectable)	Fixed 400 kHz	Yes	Yes
LM26410M3RBRG1(1)	1 A	3.3-V Fixed / Adjustable	Yes (PFM / FPWM Selectable)	Fixed 2.2 MHz	Yes	Yes
LM26410M3RBRG1	1 A	5-V Fixed / Adjustable	Yes (PFM / FPWM Selectable)	Fixed 2.2 MHz	Yes	Yes

- For more information on device orderable part numbers, see Device Nomenclature.
- For other variant options, please contact TI.
- Preview.

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