



Parts List

Qty	Value	Description	Package
5x	10uF	Multi-Layer Ceramic Capacitor	1206
3x	SS14	40V 1A Schottky Rectifier Diode (or SS24 , SS34 etc)	SMA
1x	33uH	Inductor Sumida CDRH74NP-330MC-B (or equivalent)	7.4mm x 7.4mm
1x		XLsemi XL6007 400kHz 60V 2A Switching Booster	SOIC8
5x		Header Pins Right Angle	DIL 0.1"
1x	17.8K	Resistor R1 Nominal 17.4K or use formula	0805
1x	2K	Resistor R2 Nominal 2K or use formula	0805

Input voltage = +3.6V to +24V
 Note the input voltage does NOT affect the output voltage.
 Formula to calculate output voltage:
 $1.25 * (1 + R1/R2)$

For 12V output using nominal resistors:
 R1=17.8K & R2=2K = 12.37V
 R1=17.4K & R2=2K = 12.125V
 R1=8.6K & R2=1K = 12.0V
 (resistors should be checked for accuracy and hand-picked)
 or....
 R1=20K & R2=4.7K trimming pot.
 Pot set to 2325 ohms will output 12.00V

DD1718PA DUAL OUTPUT +-12V BOOST MODULE

Reverse-Engineered
 By:

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