CN6009 Step-up Dc Power Converter

- IN-IN + input Positive Input Negative!
- Positive output OUT + OUT-output negative
- Test comparison sample reference:
- Input 3V Output 12V 0.4A 4.8W
- Input 5V Output 12V 0.8A 9.6W
- Input 7.4V Output 12V 1.5A 18W
- Input 12V Output 15V 2A 30W
- Input 12V Output 16V 2A 32W
- Input 12V Output 18V 1.6A 28.8W
- Input 12V Output 19V 1.5A 28.5W
- Input 12V Output 24V 1 A 24W

DSN6009 4A is a high-performance step-up switching current (BOOST) module. The module uses the second generation of high-frequency switching technology XL6009E1 core chip performance than the first generation technology LM2577. XL6009 boost module at a lower cost, superior performance, LM2577 module is about to be eliminated.

- ? Wide input voltage 3V ~ 32V, optimum operating voltage range is 5 ~ 32V;
- ? Wide Output voltage 5V ~ 35V;
- ? Built-4A efficient MOSFET switches enable efficiency up to 94%; (LM2577 current is 3A)
- ? high switching frequency 400KHz, can use a small-capacity filter capacitors that can achieve very good results, the ripple smaller and smaller. (LM2577 frequency only 50KHz)

Technical parameters: Model Specification Module Properties Non-isolated boost (BOOST)

- Rectification Non-Synchronous Rectification
- Input Range 3V ~ 32V
- Output Range 5V ~ 35V
- Input Current 4A (max), no-load 18mA (5V input, 8V output, no-load is less than 18mA. Higher the voltage, the greater the load current.)
- Conversion efficiency <94% (greater the pressure, the lower the efficiency)
- Switching frequency
- 400KHz
- Output Ripple 50mV (the higher the voltage, the greater the current, the greater the ripple)
- Load Regulation 0.5% Voltage Regulation 0.5% Operating Temperature -40 ? +85 ? Dimensions 43mm * 21mm * 14mm (L * W * H)

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