



Maker Power™

USB Power DC-DC

Features

USB Power Input
 Rugged USB Mini connector
 4 Fixed Voltages Out

- 5.0 VDC
- 3.3 VDC
- 2.5 VDC
- 1.8VDC

 Internal Current/Thermal Limit
 Output Current up to 600mA each¹
 Flexible Connection Scheme

Applications

Maker applications
 Circuit Prototyping
 Power Isolation
 Field testing
 Remote Area Power

Description

The USB Power DC-DC is a small power module that accepts USB power and provides four voltages. All four of these voltages are fixed and regulated outputs, 5.0VDC, 3.3VDC, 2.5VDC and 1.8VDC. The module provides a small and convenient package that is the same form factor as other **Maker Power™** USB power modules. The module provides flexible connections. It will plug into a standard solderless breadboard, IDC 10 pin socket or a standard 10 pin ribbon cable.

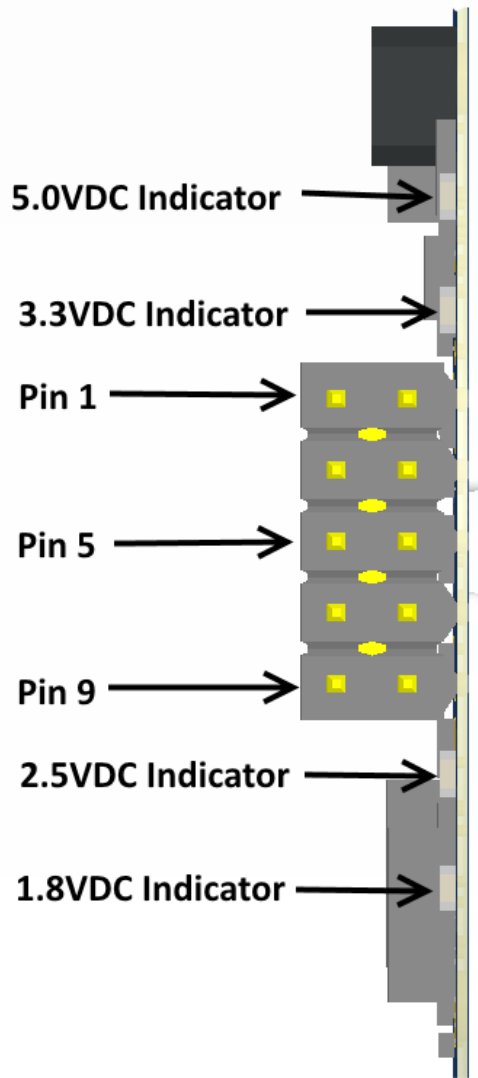
Electrical Characteristics

Parameter	Min	Max	Unit
Input Voltage	4.4	5.2	VDC
5.0 VDC Output @ 600mA	4.85	5.15	VDC
3.3 VDC Output @ 600mA	3.15	3.45	VDC
2.5 VDC Output @ 600mA	2.4	2.6	VDC
1.8 VDC Output @ 600mA	1.72	1.88	VDC
Quiescent Current		30	mA
Line Regulation		50	mV
Load Regulation		50	mV
Stability (Temperature/Long term) ²		0.75	%

Note 1. Total current out is dependent on the USB Power supply. Total current out cannot exceed current capability of the USB power supply. Typically the maximum total current is 2.1A.

Note 2. Stability only applies to 3.3VDC, 2.5VDC and 1.8VDC outputs.

PRELIMINARY



Pin	Function
1	5.0VDC
2	5.0VDC
3	3.3VDC
4	3.3VDC
5	GND
6	GND
7	2.5VDC
8	2.5VDC
9	1.8VDC
10	1.8VDC

Note

All specifications listed here were tested under ideal conditions, i.e. short load connections, well behaved circuits, stable USB power inputs, etc. This is **not** a laboratory grade product and is intended as a small and portable power supply for individuals testing and running small portable systems away from conventional power supplies. Your results will vary.