DC-DC Power Board

120 Watt DC-DC Converters

MODEL: DC120

FEATURES

- DC to DC Power Board
- 4:1 Input Range
- 120 W Isolated Output Power
- High-Density
- Open-Frame or Enclosure type Option
- Standard "Half-Brick" Package
- Input Under and Overvoltage Shutdown
- Remote on/off Control
- Safety Approvals Pending
- RoHS Compliant

INPUT SPECIFICATION

Input Voltage Range	24V 9-36V
Input Voltage peak/surge	24V ..... 50V/100ms max.
Input Filter	Pi Network
Input Turn-On Voltage	24V .....10 VDC typ.
Input Undervoltage Shutdown	24V ..... 8 VDC typ.

GENERAL

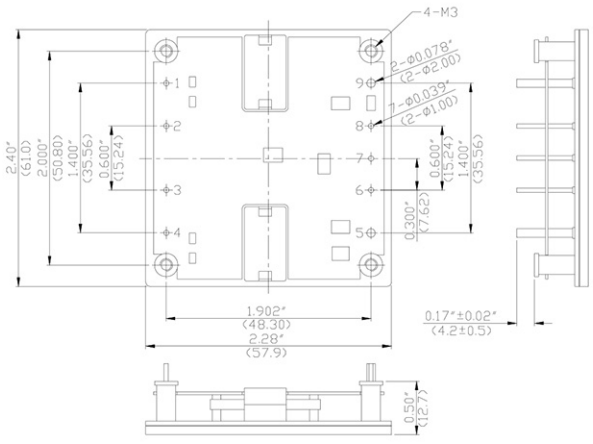
PWR Input
9V-36V

DC to DC Converter Module
Model: DC120
Total Power Output : 120W

PWR Output
12V,10A
(max.)

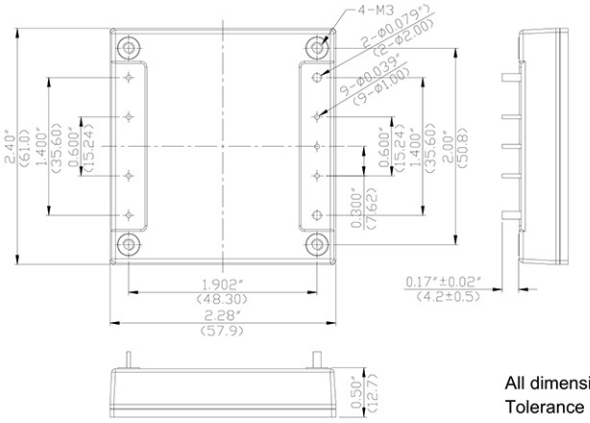
MECHANICAL

Open Frame Type



BOTTOM VIEW

Enclosure Type



With Heatsink: TBD

All dimensions in inches (mm).
Tolerance .xx= ±0.04"
.xxx=±0.010"

OUTPUT SPECIFICATIONS

Voltage Accuracy1,…….. ±1.5%max.
Transient Response2
Single, 25% step Load Change …….. <500u sec.
External Trim Adj. Range …… ±10%
Short Circuit Protection …….…… Continuous
Line Regulation3……..…… ±0.5% max.
Load Regulation4 ……..…… ±1.0% max.
Ripple and Noise, 20MHz BW5,
3.3V, 5V …….. 100mV p-p max.
12V, 15V,…….. 200mV p-p max.
Overvoltage Protection6, 3.3V ……..…… 4.3V typ.
5.0V …… 6.2V typ.
12V ……..…… 15V typ.
15V ……..…… 18V typ.

GENERAL SPECIFICATIONS

Efficiency …… See Table
Isolation Voltage …….. 1500 VDC min.
Switch Frequency …….. ...330KHz
Isolation Resistance7 ……..…… 108 Ohms min.
Over temperature shutdown point8, 9 ……..… 120°C typ.
Operation Temperature9 …….... -40°C to +120°C
Storage Temperature Range ….....……...-55°C to +125°C
EMI/RFI Conducted10 …….. EN55022 Level A/B
Dimensions ……....3.40*2.4*1.4 inches
(86 x 61 x 34 mm)
Weight ……..…… ..80g

PIN ASSIGNMENT

Pin	Function
1	12VDC
2	GND
3	GND
4	GND
5	12VDC
6	12VDC