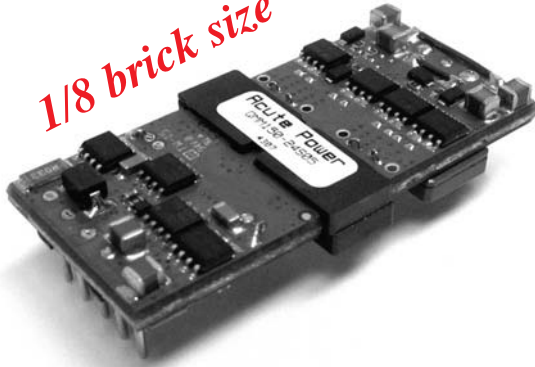




150 Watt DC-DC

QMM150

1/8 brick size



- Dual** independently regulated & Isolated output Types
- Single** outputs (2X Io)
- Interleaved ripple canceling operation
- 0.9V To 5.0V Outputs
- Output Trim Vo2 & Singles
- Greater Than 91% Efficiency
- Remote On/Off (each channel)
- Overvoltage Protection
- 40C To +105C Operation
- Short Circuit Protection
- External Sync Pin

The QMM150 DC DC converter is a high density, dual phase (interleaved) constructed design. This product is a highly flexible / configured design, where as the Dual outputs are independently regulated and isolated meaning they can be configure as independent, dual positive , +/- dual or series (stacked). The single output simply configures the two like outputs for twice the output current of each channel. The QMM150 has additional flexibility by utilizing our paralleling output modules that allow multiple additional outputs all running at the same frequency without the need for external complex circuitry.

Model Number Configuration

| QMM150 | (DC input) | (Output Type) | (Output options) | |
|-------------------------|------------|-----------------------------|--|--|
| 24 (18-36Vin) | - | D (Dual Output) | V1/V2 | Singles |
| 48 (36-75Vin) | | S (single Output) | | |
| | | | 5.0 @ 15A 3.3 @ 20A 2.5 @ 25A 1.8 @ 25A 1.2 @ 25A 0.9 @ 25A | 5.0 @ 15A 3.3 @ 20A 2.5 @ 25A 1.8 @ 25A 1.2 @ 50A 0.9 @ 50A |

Modifications and Customs available

Preliminary

Input

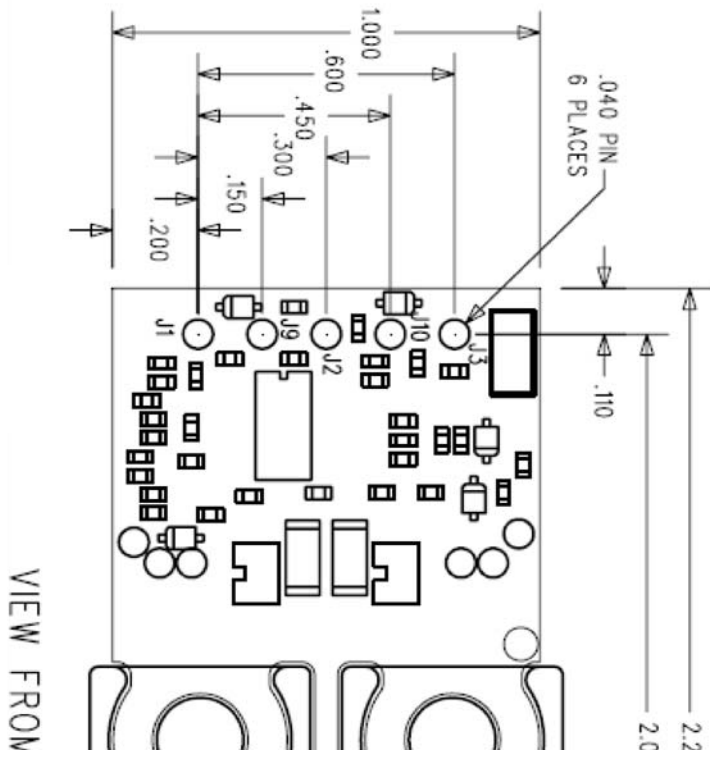
| | | |
|-----------------------|-------|--------------------------|
| Input Voltage Range | ..... | 2:1 |
| Note (3) | ..... | 18-36Vdc (24V Models) |
|  | ..... | 36-75Vdc (48V Models) |
| Input filter | ..... | LC Type |
| Under Voltage Lockout | ..... | 16.5V (24V Models) |
|  | ..... | 32V (48V Models) |
| Remote :ON | ..... | +5V or open, Ref. (-)Vin |
| :OFF | ..... | +0.7V, Ref (-)Vin |
| Conducted Noise | ..... | EN55022,level A (Note 5) |

Output

| | | |
|------------------------------|-------|---|
| Output Power | ..... | 150 W Continuous(Max) |
| Output Voltage/current | ..... | See Model Table |
| Output Setting Accuracy | | |
| Vo1 | ..... | +/- 1% typ., +/- 1.5%max. |
| Vo2 | ..... | +/- 1% typ., +/- 1.5%max. |
| Load Variation | | |
| Vo1(FL.-NL) | ..... | +/- 0.5% |
| Vo2(FL.-NL) | ..... | +/- 0.5% |
| Line Regulation | ..... | +/- 0.5% (Vo1&Vo2) |
| Total Error Band | | |
| Vo1 | ..... | +/- 3%, Line/Load&Temp. |
| Vo2 | ..... | +/- 3%, Line/Load&Temp. |
| Ripple & Noise(20Mhz BW) | ..... | 50mV (Vo1 & Vo2), 20mV Sinç |
| Transient Response (FL-1/2L) | ..... | 2 % Deviation, 200uS |
| Temperature Coefficient | ..... | +/- .01%/c |
| Short circuit Protection | ..... | Indefinite, Modulated, AutomaticRecovery |

General

| | | |
|----------------------|-------|---|
| Efficiency | ..... | See Model Graph |
| Isolation Voltage | ..... | 2250Vdc I/P-To_Output's 500VdcO/P1-To-O/P2 (Floating Configuration) |
| Isolation Resistance | ..... |  |
| Switching Frequency | ..... | 400Khz |



| PINOUT | |
|--------|-----------|
| PIN | FUNCTION |
| J1 | +VIN |
| J2 | SYNC |
| J3 | -VIN |
| J4 | VOUT1 |
| J5 | AGND1 |
| J6 | TRIM |
| J7 | AGND2 |
| J8 | VOUT2 |
| J9 | OFF /OUT1 |
| J10 | OFF /OUT2 |