

## CP15 4:1 SERIES



# DC/DC

## 15W Output Power

- INPUT RANGE: 9 - 36 V<sub>DC</sub>  
OR 18 - 75 V<sub>DC</sub>
- INDUSTRY COMPLIANT
- HIGH EFFICIENCY
- REMOTE SHUTDOWN
- UNDERVOLTAGE LOCKOUT W/HYST

### Specifications

#### INPUT

Voltage Range 9 - 36 V<sub>DC</sub>  
OR 18 - 75 V<sub>DC</sub>

Remote ON/OFF control Neg. or Pos.  
UVLO w/hysteresis

#### OUTPUT

Nominal Output 3.3, 5.0,  
12 or 15 V<sub>DC</sub>

Setpoint accuracy +/-1.5%

Trim Range +/-10%

Ripple and Noise 50mV Pk-Pk

Short Circuit Protection Auto-restart

#### GENERAL

Efficiency 87% TYP

Isolation (open frame) 2250V<sub>DC</sub>

Isolation (encapsulated) 1600V<sub>DC</sub>

#### ENVIRONMENTAL

Operating Temperature -40 - +85C

Storage Temperature -40 - +125C

The 15 Watt CP15 1x1 4:1 input series high performance DC-DC converter offers high efficiencies of 87% typical. The high efficiency of the CP15 series allows for minimal derating over a wide ambient temperature range. Additional features include output voltage trim, remote on/off control logic (negative or positive enable) and an operating temperature range of -40°C to +85°C (w/ derating - see full datasheet.) Unit conforms to industry standard footprint & feature set. Units are through-hole (open frame or Encapsulated) or SMT (open frame only) mount to fit into typical PCB assembly processes.

#### Applications

These units are ideally suited for industrial, telecom, instrumentation, data processing and networking applications including 'bus' converter applications.



# CP15 4:1 Series Ordering Information

Model Number*	Vout (Volts)	Iout (A, max)	Power (W)	Vin Nom. (Volts)	Input Range (Volts)	Ripple (mV P-P)	Efficiency (Full Load)
CP15B1750018P	3.3	5	16.5	24	9 - 36	30	87%
CP15B1130018P	5	3	15	24	9 - 36	50	87%
CP15B1212518P	12	1.25	15	24	9 - 36	50	86%
CP15B1311018P	15	1.1	16.5	24	9 - 36	50	86%
CP15B1750036P	3.3	5	16.5	48	18 - 75	30	87%
CP15B1130036P	5	3	15	48	18 - 75	50	87%
CP15B1212536P	12	1.25	15	48	18 - 75	50	86%
CP15B1311036P	15	1.1	16.5	48	18 - 75	50	86%

\*Change "B" to "C" for encapsulated model - Eg. CP15C1225018P for encapsulated model

\*Change "P" suffix to "N" for negative ON/OFF enable logic

\*Add "S" to end of CP15B P/N for SMT version - example: CP15B1130036PS

Note: Voltages below 3.3V or above 15V available upon request - consult factory

## Mechanical Outline & Pin Assignments

### Pin Assignment

- |           |   |
|-----------|---|
| 1. + Vin  | • All dimensions are in inches [mm]                 |
| 2. - Vin  | • Pins are lead-free (ROHS).                        |
| 3. On/Off | • Pins are 0.040" [1.0mm] Diameter                  |
| 4. - Vout | • SMT pins are 0.070" [1.78mm] Diameter (not shown) |
| 5. Trim   | • Pin material: Copper/brass                        |
| 6. + Vout | • Pin Finish: Gold flash over nickel                |

