

CP 5Vin SERIES



DC/DC

15W or 30W Output Power

- INPUT RANGE: 4.5 - 9 V_{DC}
OR 3 - 9 V_{DC}
- INDUSTRY COMPLIANT
- HIGH EFFICIENCY
- REMOTE SHUTDOWN
- UNDERVOLTAGE LOCKOUT w/HYST

The CP 1x1 5Vin input series high performance DC-DC converter offers high efficiencies of 89% typical. The high efficiency of the CP30 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, set top box, instrumentation, data processing and networking applications.

Specifications

INPUT

Voltage Range	4.5 - 9 V _{DC} OR 3 - 9 V _{DC}
Remote ON/OFF control	Neg. or Pos.
UVLO w/hysteresis	

OUTPUT

Nominal Output	3.3, 5.0, 12 or 15 V _{DC}
Setpoint accuracy	+/-1.5%
Trim Range	+/-10%
Ripple and Noise	50mV Pk-Pk
Short Circuit Protection	Auto-restart

GENERAL

Efficiency	89% TYP
Isolation (open frame)	2250V _{DC}
Isolation (encapsulated)	1600V _{DC}

ENVIRONMENTAL

Operating Temperature	-40 - +85C
Storage Temperature	-40 - +125C



CP 5Vin 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)
CP15B1730005P	3.3	3	10	5	3 - 9	50	88%
CP15B1130005P	5	3	15	5	4.5 - 9	50	89%
CP15B1213005P	12	1.3	15.6	5	4.5 - 9	50	89%
CP15B1311005P	15	1.1	16.5	5	4.5 - 9	60	89%
CP30B1760005P	3.3	6	20	5	3 - 9	50	87%
CP30B1160005P	5	6	30	5	4.5 - 9	50	88.5%
CP30B1225005P	12	2.5	30	5	4.5 - 9	50	89%
CP30B1320005P	15	2	30	5	4.5 - 9	60	89%

*Change "B" to "C" for encapsulated model - Eg. CP30C1760005P for encapsulated model

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

*Add "S" to end of CP_B P/N for SMT version - example: CP30B1160005PS

Note: Input voltages below 3V or up to 14V 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 |

