

CP40 4:1 SERIES



DC/DC

40W Output Power

- INPUT RANGE: 9 - 36 V_{DC}
OR 18 - 75 V_{DC}
- INDUSTRY COMPLIANT
- HIGH EFFICIENCY
- REMOTE SHUTDOWN
- UNDERVOLTAGE LOCKOUT w/HYST

Specifications

INPUT

Voltage Range 9 - 36 V_{DC}
OR 18 - 75 V_{DC}
Remote ON/OFF control Neg. or Pos.
UVLO w/hysteresis

OUTPUT

Nominal Output 3.3, 5 or 12 V_{DC}
Setpoint accuracy +/-1.5%
Trim Range +/-10%
Ripple and Noise 50mV Pk-Pk
Short Circuit Protection Auto-restart

GENERAL

Efficiency 90% TYP
Isolation (open frame) 2250V_{DC}
Isolation (encapsulated) 1600V_{DC}

ENVIRONMENTAL

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

The 40 Watt CP40 1x1 4:1 input series high performance DC-DC converter offers high efficiencies of 90% typical. The high efficiency of the CP40 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.



CP40 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 (Typ)
9-36 Vin Models							
CP40B1790018P	3.3	9	30	24	9 - 36	50	88%
CP40B1180018P	5	8	40	24	9 - 36	50	90%
CP40B1233018P	12	3.3	40	24	9 - 36	50	90%
18-75 Vin Models							
CP40B1790036P	3.3	9	30	48	18 - 75	50	88%
CP40B1180036P	5	8	40	48	18 - 75	50	90%
CP40B1233036P	12	3.3	40	48	18 - 75	50	90%

*Change "B" to "C" for encapsulated model - Eg. CP40C1790018P for encapsulated model

*Change "P" suffix to "N" for negative ON/OFF enable logic, blank = no enable or trim pins

*Add "S" to end of CP40B P/N for SMT version - example: CP40B1180036PS

Note: Voltages above 12V 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 0.060" [1.52 mm] Diameter (not shown) |
| 5. Trim | • Pin material: Copper/brass |
| 6. + Vout | • Pin Finish: Gold flash over nickel |

