DC/DC

75W Output Power

- WIDE INPUT RANGE: 9 - 36 VDC
  OR 18 - 75 VDC
- 2" x 1" x 0.41" ENCAPSULATED
- HIGHEST POWER DENSITY 1x2
- HIGH EFFICIENCY - UP TO 92%
- NO MINIMUM LOAD REQUIRED
- SHIELDED METAL CASE

The 75 Watt CP75 1x2 4:1 input series high performance DC-DC converter offers high efficiencies of 91% typical. The high efficiency of the CP75 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.) Unit conforms to industry standard footprint & feature set. Units are through-hole (open frame or Encapsulated) or SMT (open frame only) mount.

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

Specifications

INPUT

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

OUTPUT

Nominal Outputs	3.3, 5.0, 12 15, 24 or 48 VDC
Setpoint accuracy	+/-1.5%
Trim Range	+/-10%
Ripple and Noise	50mV Pk-Pk
Short Circuit Protection	Auto-restart

GENERAL

Efficiency	91% TYP
Isolation (open frame)	2000VDC
Isolation (encapsulated)	1600VDC

ENVIRONMENTAL

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

CP75 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)
CP75C1715218P	3.3	15	50	24	9 - 36	50	89%
CP75C1115218P	5	15	75	24	9 - 36	50	90%
CP75C1260018P	12	6	72	24	9 - 36	50	92%
CP75C1340018P	15	4	60	24	9 - 36	60	91%
CP75C1425018P	24	2.5	60	24	9 - 36	80	92%
CP75C1612018P	48	1.2	58	24	9 - 36	100	89%
CP75C1715236P	3.3	15	50	48	18 - 75	50	89%
CP75C1115236P	5	15	75	48	18 - 75	50	91%
CP75C1260036P	12	6	72	48	18 - 75	50	92%
CP75C1340036P	15	4	60	48	18 - 75	60	91%
CP75C1425036P	24	2.5	60	48	18 - 75	80	91%
CP75C1612036P	48	1.2	58	48	18 - 75	100	89%

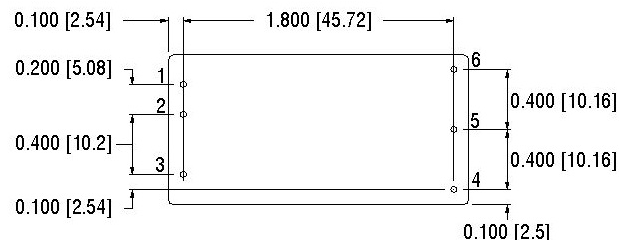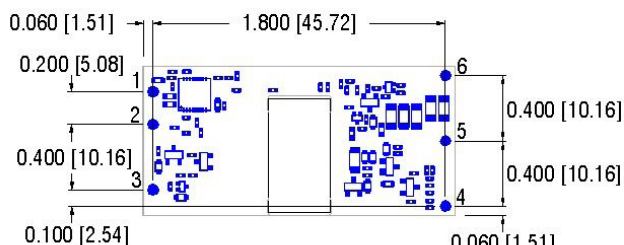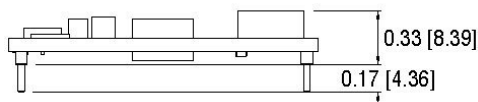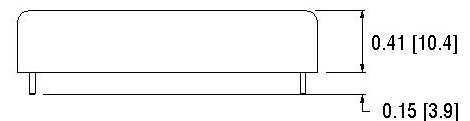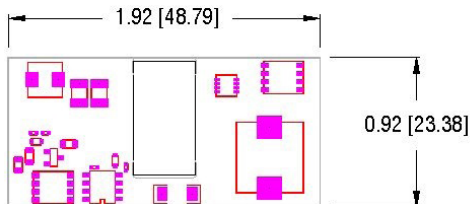*Change "C" to "B" for open frame model - Eg. CP75B1715218P for open frame model
*Change "P" suffix to "N" for negative ON/OFF enable logic, blank for no trim or enable pins
*Add "S" to end of P/N for SMT version - example: CP75B1115236PS

Mechanical Outline & Pin Assignments

Pin Assignment

1.   + Vin
2.   - Vin
3.   On/Off
4.   Trim
5.   - Vout
6.   + Vout

- All dimensions are in inches [mm]
- Pins are lead-free (ROHS).
- Pins are 0.040" [1.0mm] Diameter
- SMT pins are 0.060" [1.52mm] Diameter (not shown)
- Pin material: Copper/brass
- Pin Finish: Gold flash over nickel

PIN SIDE UP

PIN SIDE UP