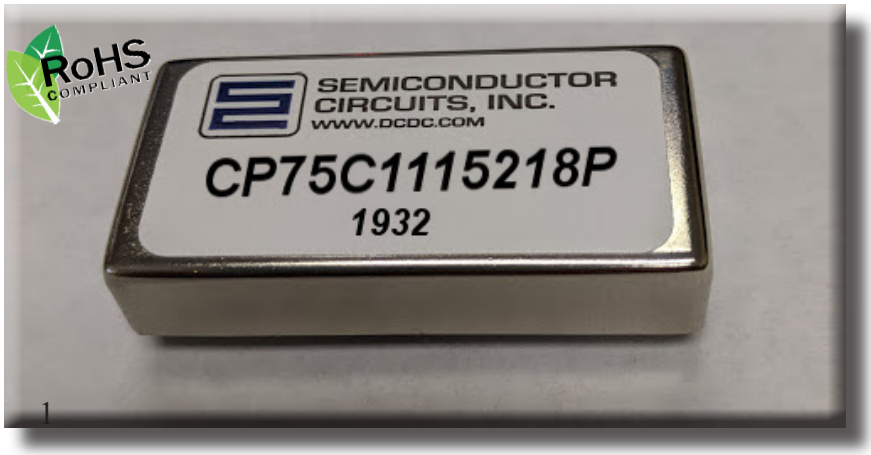
Cool Power Technologies™ CP75 1x2 4:1 Series



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

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

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.

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SEMICONDUCTOR CIRCUITS, INC.

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