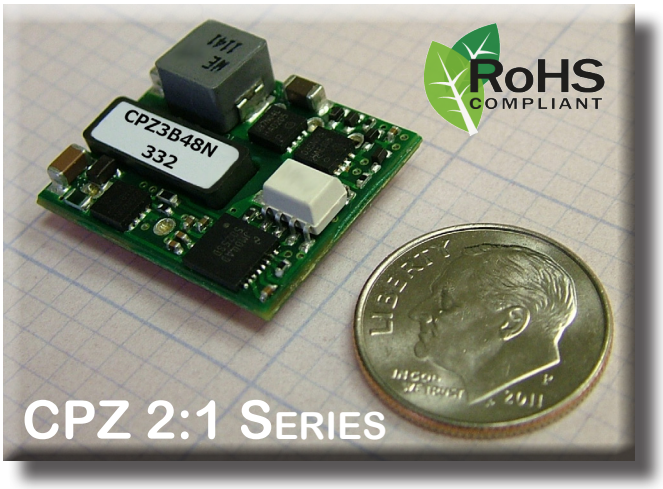
Cool Power Technologies™ 32nd Brick 2:1 Series



DC/DC

36W Output Power

- Input Range: 36 - 75Vdc or 18 - 36Vdc
- DOSA Compliant
- High Efficiency
- Remote Shutdown
- Undervoltage Lockout w/hyst

The 36 Watt CPZ series high performance DC-DC converter offers high efficiencies of 89% typical (5V model.) The high efficiency of the CPZ series allows for no minimal derating over a wide ambient temperature range. Additional features include trim & remote sense, 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 DOSA footprint & feature set. Units are through-hole or surface mount (SMT) to fit into typical PCB assembly processes.

Applications

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

Specifications

INPUT

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

OUTPUT

Nominal Output	1.8, 3.3, 5.0 or 12 Vdc
Setpoint accuracy	+/-1.5%
Trim Range	+10/-20%
Ripple and Noise	35mV Pk-Pk
Short Circuit Protection	Auto-restart

GENERAL

Efficiency	89% TYP
Isolation	1500Vdc
Safety	Basic Insulation

ENVIRONMENTAL

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

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SEMICONDUCTOR CIRCUITS, INC.

CPZ Series Ordering Information

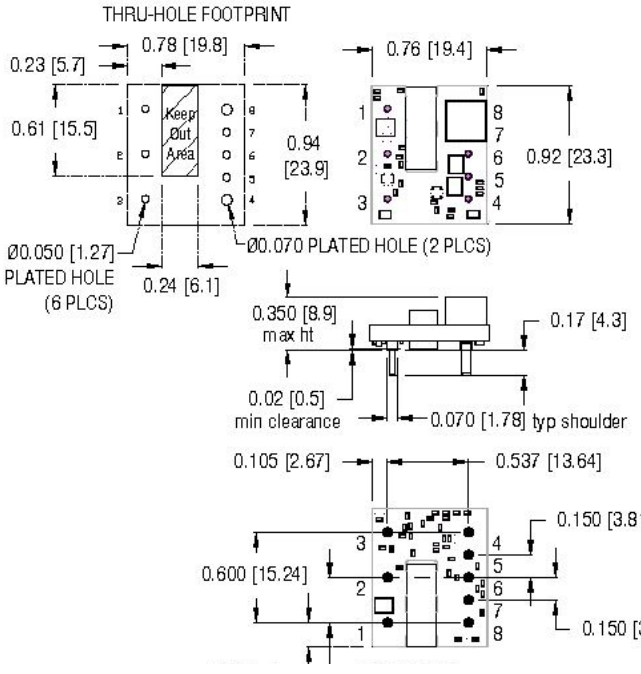
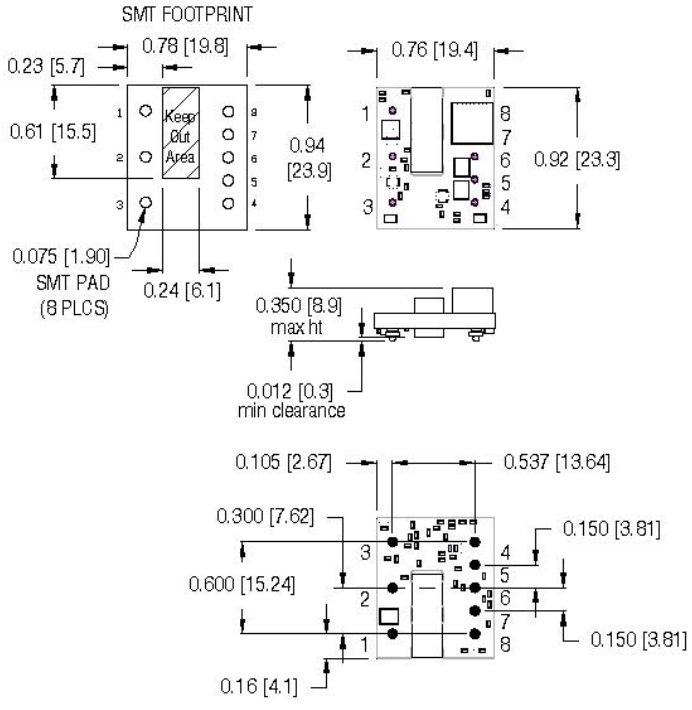
Model Number*	Vout (Volts)	Iout (A, max)	Power (W)	Vin Nom. (Volts)	Input Range (Volts)	Ripple (mV P-P)	Efficiency (Typ)
CPZ12Y48N	1.8	12	21.6	48	36 - 75	30	86%
CPZ8F48N	3.3	8	26.4	48	36 - 75	35	87%
CPZ6A48N	5	6	30	48	36 - 75	50	89%
CPZ3B48N	12	3	36	48	36 - 75	65	89%
CPZ12Y24N	1.8	12	21.6	24	18 - 36	30	86%
CPZ8F24N	3.3	8	26.4	24	18 - 36	35	87%
CPZ6A24N	5	6	30	24	18 - 36	50	89%
CPZ3B24N	12	3	36	24	18 - 36	65	89%

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

Notes: 1. Voltages below 1.8V or above 12V available upon request - consult factory

Mechanical Outline & Pin Assignments

Pin Assignment

1. + Vin
2. Enable
3. - Vin
4. - Vout
5. - Sense
6. Trim
7. + Sense
8. +Vout

- All dimensions are in inches [mm]
- Pins are lead-free (ROHS).
- Pin material: Copper/brass
- Thru-hole Pin Finish: Gold flash over nickel
- SMT Pin Finish: Lead-free solderball
- Converter Weight: 0.2 oz [5.67 g]