

SC50B Series



DC/DC

50 Watts

Single/Dual Outputs

- 4:1 ultra wide input range
9-36 Vdc
18-75 Vdc
- Remote shutdown
- Six-sided shielding
- 1500 Vdc I/O Isolation
- Remote Sense
- Efficiencies >88%
- Industry Standard footprint

Specifications

INPUT

Voltage Range	9-36 Vdc 18-75 Vdc
Filtering	All Models
Reverse Polarity Protected	To Nominal Input Current External Fuse Required
Remote On/Off Control	All Models

OUTPUT

Voltage Tolerance	± 1%
Ripple and Noise	1% V out pk-pk (20MHz BW)
Short Circuit Protection	Continuous Power Cycle
Temperature Coefficient	0.02% / °C

GENERAL

Regulation:	
Line	0.25%
Load	0.5% (singles) 1.0% (duals)
Efficiency	88% (typ)
I/O Isolation	1500 Vdc

ENVIRONMENTAL

Operating Temperature	-40°C to +60°C
Max Baseplate Temp	-40°C to +115°C
Storage Temperature	-55°C to +105°C

All specifications are typical at nominal line and full load at 25°C unless otherwise noted and are subject to change without notice.

The SC50B Series operate over an Ultra-wide Input range of 9-36Vdc or 18-76Vdc.

Efficiencies greater than 88% over the entire range are typical. Additional features include higher ambient operating temperatures, reduced airflow requirements, excellent regulation and transient response characteristics. Encapsulated package with industry standard footprint. Designed for through hole mounting.

* Optional case with threaded inserts for heatsink mounting available.

Applications

These units are ideally suited for telecommunications, mobile/optical telecom, network routers and systems requiring distributed power architecture, industrial and test equipment



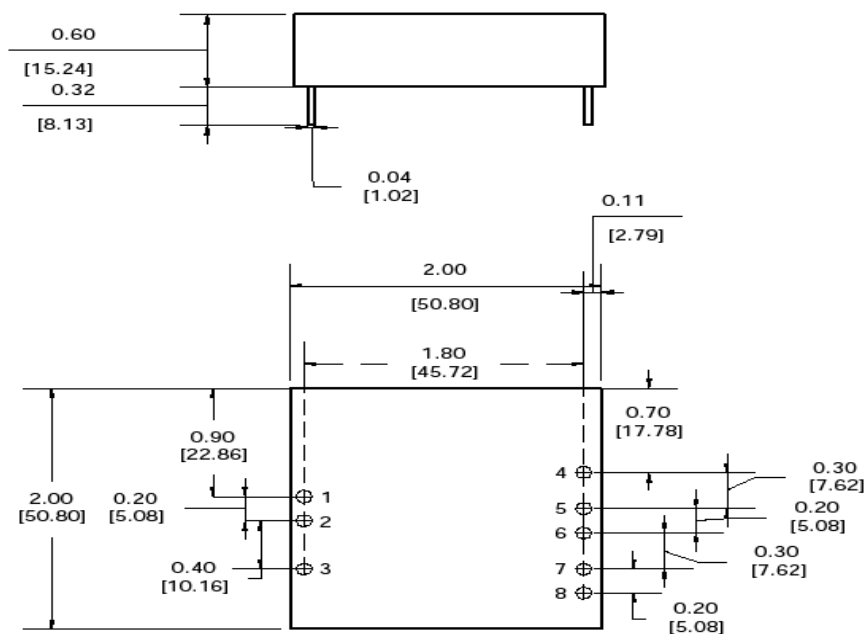
**SEMICONDUCTOR
CIRCUITS, INC.**

toll-free 888.438.3232 toll-free 888.GET.DCDC

SC50B Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Model Number
9-36 Vdc	5 Vdc	10000mA	SC50B11-1000-18
9-36 Vdc	12 Vdc	4200mA	SC50B12-440-18
9-36 Vdc	15 Vdc	3340mA	SC50B13-334-18
9-36 Vdc	24Vdc	2100mA	SC50B14-210-18
9-36 Vdc	±12 Vdc	±2100mA	SC50B22-420-18
9-36 Vdc	±15 Vdc	±1670mA	SC50B23-334-18
18-75 Vdc	5 Vdc	10000mA	SC50B11-1000-48
18-75 Vdc	12 Vdc	4200mA	SC50B12-420-48
18-75 Vdc	15 Vdc	3340mA	SC50B13-334-48
18-75 Vdc	24 Vdc	2100mA	SC50B14-210-48
18-75 Vdc	±12 Vdc	±2100mA	SC50B22-420-48
18-75 Vdc	±15 Vdc	±1670mA	SC50B23-334-48

Dimensions and Connections



BOTTOM VIEW
ALL DIMENSIONS ARE IN INCHES [mm]

NOTES:

- Ripple measured with a 3.3 mf tantalum capacitor across each output.
- External Output Trimming: Output may be externally trimmed ±10%.
- Remote ON/Off Control (pin 3) common referenced to - Output (pin 2).
On greater than 4.5 Vdc or open circuit off less than 0.4 Vdc

PIN CONNECTIONS

Single Output

- +Input
- Input
- CTRL
- Sense
- +Sense
- +Output
- Output
- Trim

PIN CONNECTIONS

Dual Outputs

- +Input
- Input
- CTRL
- +Output
- Common
- Common
- Output
- Trim

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