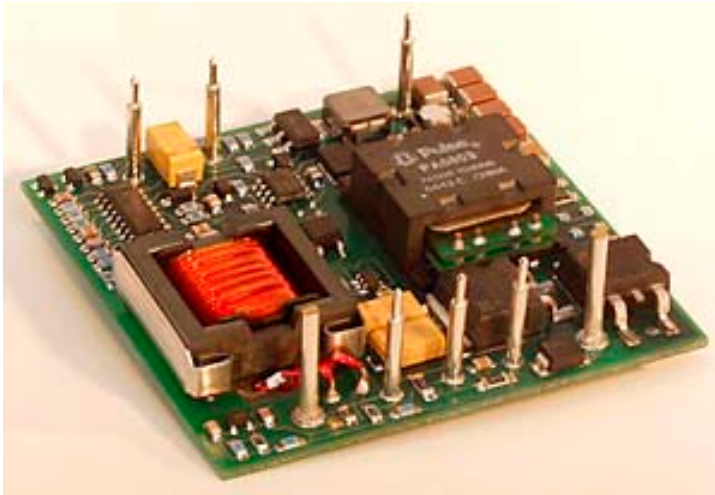


SC60B Series



DC/DC

60 Watts

Single/Dual Outputs

- Ultra Wide input range
9-36 Vdc
18-76 Vdc
- Remote shutdown
- Open frame 1/2 brick
- 1500 Vdc I/O isolation
- Remote Sense
- Industry Standard footprint
- Efficiencies >89%
- UL1950 Recognition
(Pending)

Specifications

INPUT

Voltage Range	9-36 Vdc 18-76 Vdc
Filtering	All Models
Reverse Polarity Protected	To Nominal Input Current External Fuse Required
Remote On/Off Control	All Models

OUTPUT

Voltage Tolerance	± 1%
	± 1.5% (3.3 Vdc)
Ripple and Noise	100mV pk-pk (20 MHz BW)
Short Circuit Protection	Continuous Power Cycle
Temperature Coefficient	0.02% / °C

GENERAL

Regulation:	
Line	0.20%
Load	0.50%
Efficiency	89% (typ)
I/O Isolation	1500 Vdc
Switching Frequency	200kHz (typ)

ENVIRONMENTAL

Operating Temperature	Fully specified from -40°C to +60°C
Max hotspot temp range	-40°C to +110°C
Storage Temperature	-55°C to +105°C
Theta _{HS-A}	12.8°C/W

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

The SC60B Series operate over an ultra wide input range of 9-36 Vdc or 18-76 Vdc. Efficiencies greater than 89% over the entire input range are typical. Additional features include higher ambient operating temperatures, reduced airflow requirements, excellent regulation and transient response characteristics. Single board package with industry standard footprint. Designed for through hole mounting.

Applications

These units are ideally suited for telecommunications mobile/optical switches, network routers and systems requiring distributed power architecture.



**SEMICONDUCTOR
CIRCUITS, INC.**

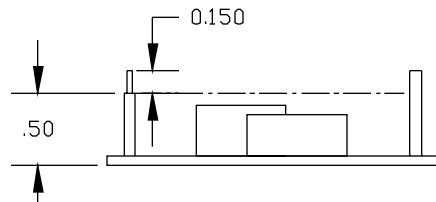
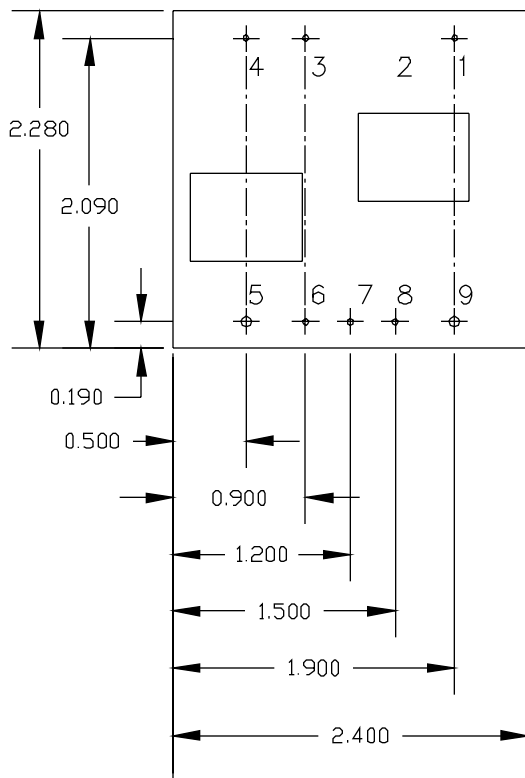
toll-free 888.438.3232 toll-free 888.GET.DCDC

SC60B Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Model Number
9-36 Vdc	15 Vdc	4.0 A	SC60B13-400-18
9-36 Vdc	18 Vdc	3.3 A	SC60B18-330-18
9-36 Vdc	24 Vdc	2.5 A	SC60B14-250-18
9-36 Vdc	±12 Vdc	±2.5 A	SC60B22-500-18
9-36 Vdc	±15 Vdc	±2.0 A	SC60B23-400-18
18-76 Vdc	15 Vdc	4.0 A	SC60B13-400-48
18-76 Vdc	18 Vdc	3.3 A	SC60B18-330-48
18-76 Vdc	24 Vdc	2.5 A	SC60B14-250-48
18-76 Vdc	±12 Vdc	±2.5 A	SC60B22-500-48
18-76 Vdc	±15 Vdc	±2.0 A	SC60B23-400-48

Dimensions and Connections

TOP VIEW



PIN CONNECTIONS (SINGLE)

1. INPUT COMMON
2. NO PIN
3. REMOTE ON/OFF
4. + INPUT
5. + OUTPUT
6. + SENSE
7. TRIM
8. - SENSE
9. OUTPUT COMMON

PIN DIAMETERS (SINGLE)

PINS 1-4, 6-8	0.040 ±0.002
PINS 5, 9	0.080 ±0.002

PIN CONNECTIONS (DUAL)

1. INPUT COMMON
2. NO PIN
3. REMOTE ON/OFF
4. + INPUT
5. + OUTPUT
6. COMMON
7. TRIM
8. COMMON
9. - OUTPUT

PIN DIAMETERS (DUAL)

PINS 1-9	0.040 ±0.002
PINS 6 & 8 ARE CONNECTED INTERNALLY	

NOTES:

1. Ripple measured with a 3.3 µF tantalum capacitor across each output.
2. External Output Trimming: Output may be externally trimmed ±10%
3. Remote ON/Off Control (pin3) common referenced to Minus Input (pin 1).
On greater than 4.5 Vdc or open circuit off less than 0.4 Vdc

1/30/2007