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SC20A Series



DC/DC

20 Watts

Single/Dual Outputs

- **4:1 ultra wide input range**
  - **9-36 Vdc**
  - **18-75 Vdc**
  - **36-75 Vdc**
- **Remote shutdown**
- **200kHz switching frequency**
- **Continuous short circuit protection**
- **Six-sided shielding**
- **UL1950, cUL, EN60950**

Specifications

INPUT

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

OUTPUT

Voltage Tolerance	± 1%
Ripple and Noise	50mV pk-pk (typ)
Trim Adjusatble	±10%
Short Circuit Protection	Continuous Power Cycle
Temperature Coefficient	0.02% / °C

GENERAL

Regulation:	
Line	0.25%
Load	0.5% (singles) 1.0% (duals)
Efficiency	80-85% (typ)
I/O Isolation	1500 Vdc

ENVIRONMENTAL

Operating Temperature	-40°C to +60°C
Max Baseplate Temp	105°C
Storage Temperature	-55°C to +105°C
Cooling	Free-air Convection

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

The SC20A series is an economically priced 20 watt DC/DC converter featuring ultra-wide input range, efficiencies to 85% and a continuous six-sided shielded case. Telecom models (-48) feature thermal shutdown and undervoltage lockout compatible with ETS 300 132-2 paragraph 4.6. Other key features include: overvoltage protection, output trim adjustability, TTL and CMOS compatible remote on/off, short circuit protection and small size. The SC20A series measures only 1.6” x 2.0” x 0.40” and offers a power density of 15.7 watts/cu. in.

Applications

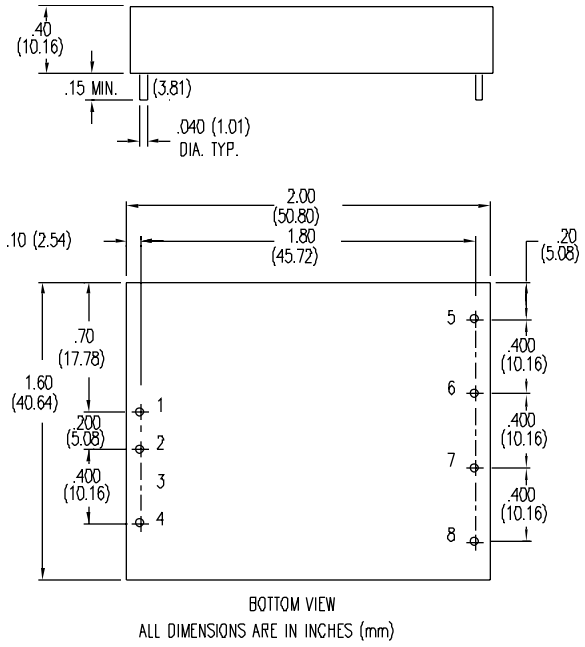
These units are ideally suited for telecommunications, distributed power systems, automatic test equipment, geosource test equipment and process control.

This datasheet has been downloaded from http://www.digchip.com at this page

SC20A Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Model Number
9-36 Vdc	3.3 Vdc	4500mA	SC20A17-450-18
9-36 Vdc	5 Vdc	4000 mA	SC20A11-400-18
9-36 Vdc	12 Vdc	1670mA	SC20A12-167-18
9-36 Vdc	15 Vdc	1340mA	SC20A13-134-18
9-36 Vdc	±12 Vdc	±840mA	SC20A22-167-18
9-36 Vdc	±15 Vdc	±667mA	SC20A23-134-18
18-75 Vdc	3.3 Vdc	4500mA	SC20A17-450-46
18-75 Vdc	5 Vdc	4000mA	SC20A11-400-46
18-75 Vdc	12 Vdc	1670mA	SC20A12-167-46
18-75 Vdc	15 Vdc	1340mA	SC20A13-134-46
18-75 Vdc	±12 Vdc	±840mA	SC20A22-167-46
18-75 Vdc	±15 Vdc	±667mA	SC20A23-134-46
36-75 Vdc	3.3 Vdc	4500mA	SC20A17-450-48
36-75 Vdc	5 Vdc	4000mA	SC20A11-400-48
36-75 Vdc	12 Vdc	1670mA	SC20A12-167-48
36-75 Vdc	15 Vdc	1340mA	SC20A13-134-48
36-75 Vdc	±12 Vdc	±840mA	SC20A22-167-48
36-75 Vdc	±15Vdc	±667mA	SC20A23-134-48

Dimensions and Connections



PIN CONNECTIONS
Single Output
1. +Input
2. -Input
3. No Pin
4. Remote On/Off
5. No Pin
6. +Output
7. Common
8. Trim

PIN CONNECTIONS
dual Outputs
1. +Input
2. -Input
3. No Pin
4. Remote On/Off
5. +Output
6. C ommon
7. -Output
8. Trim

NOTES:
1. Ripple measured with a 3.3 µF tantalum capacitor across each output.
2. Minimum load 10% of full load. Load regulation from full load to minimum load.
3. The SC20A series requires an external filter capacitor across the input valued at 2.2µF @ 100Vdc such as ITW/Paktron part# 225K100RA4 or equiv.
4. Case conected to pin #1 on -46 and -48 models. Case connected to pin #2 on -18 models

External Output Trimming: Output may be externally trimmed ±10%.

Remote ON/Off Control (pin 4) common referenced to - Input (pin 2).
On greater than 2.5 Vdc or open circuit
Off less than 0.8 Vdc

11/01/2001

14C Industrial Way Atkinson, NH 03811 (603) 893-2330 FAX (603) 893-6280

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