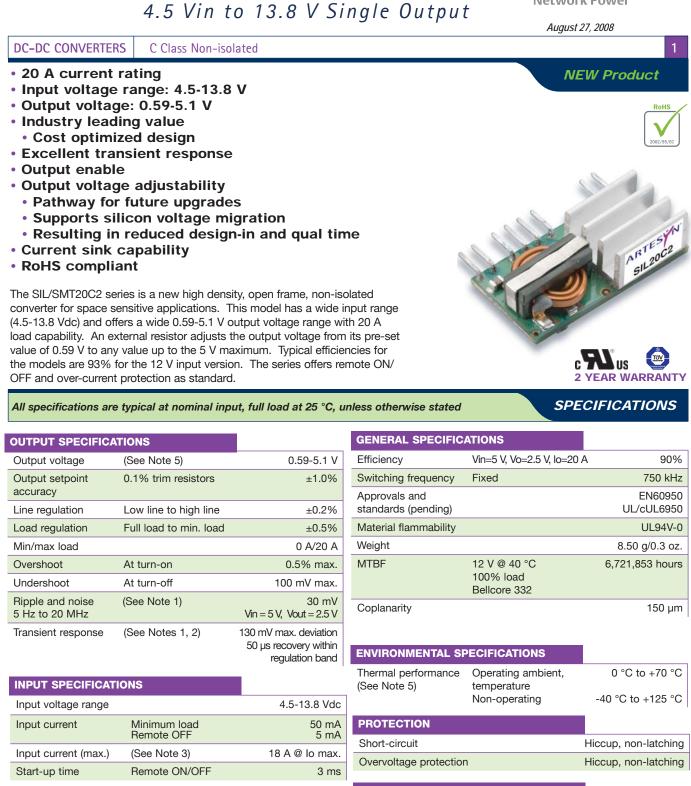
# SIL/SMT20C2 Series





International Safety Standard Approvals

UL/cUL CAN/CSA 22.2

**GN**US

TÜV Product Service (EN60950) CB report and certificate to IEC60950

Thermal performance (See Note 5)	Operating ambient, temperature Non-operating	0 °C to +70 °C -40 °C to +125 °C
PROTECTION		
Short-circuit		Hiccup, non-latching
Overvoltage protection	ו	Hiccup, non-latching
		_
RECOMMENDED SY	STEM CAPACITANCE	

Input capacitance	(See Note 6)	0 µF
Output capacitance	(See Note 7)	0 µF

## SIL/SMT20C2 Series 4.5 Vin to 13.8 V Single Output



August 27, 2008

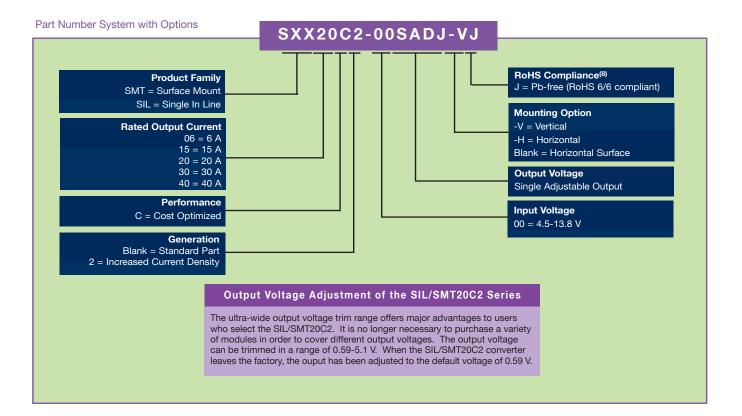
DC-DC CONVERTERS	C Class Non-isolated	

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NEW Product

2

OUTPUT POWER	INPUT	MOUNT	OUTPUT	OUTPUT CURRENT	OUTPUT	EFFICIENCY	REGUI	ATION	MODEL
(MAX.)	VOLTAGE	MOONT	VOLTAGE	(MIN.)	(MAX.)	(TYP.)	LINE	LOAD	NUMBER <sup>(8, 9)</sup>
100 W	4.5-13.8 Vdc	Horizontal	0.59-5.1 V	0 A	20 A	93%	±0.2%	±0.5%	SIL20C2-00SADJ-HJ
100 W	4.5-13.8 Vdc	Vertical	0.59-5.1 V	0 A	20 A	93%	±0.2%	±0.5%	SIL20C2-00SADJ-VJ
100 W	4.5-13.8 Vdc	Horizontal Surface	0.59-5.1 V	0 A	20 A	93%	±0.2%	±0.5%	SMT20C2-00SADJJ



### Notes

- 1 Measured as per recommended system capacitance. 2 di/dt = 10 A/µs, Vin = Nom, Tc = 25 °C, load change = 0.75 lo to
- full lo and full lo to 0.75.
- 3 External input fusing is recommended.
- 4 Additional part numbers may be available with different output voltages.
- 5 Airflow dependent, 100 LFM minimum required.
- 6 No capacitor needed for ripple current capability.
- 7 No capacitor needed for stability.
- 8 TSE RoHS 5/6 (non Pb-free) compliant versions may be available on special request, please contact your local sales representative for details.
- 9 NOTICE: Some models may not support all options. Please contact your local Emerson Network Power representative or use the on-line model number search tool at http://www.powerconversion.com to find a suitable alternative.

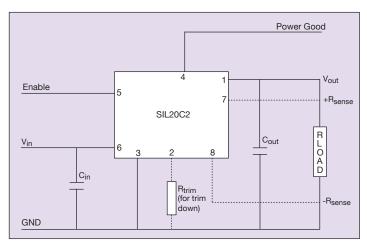
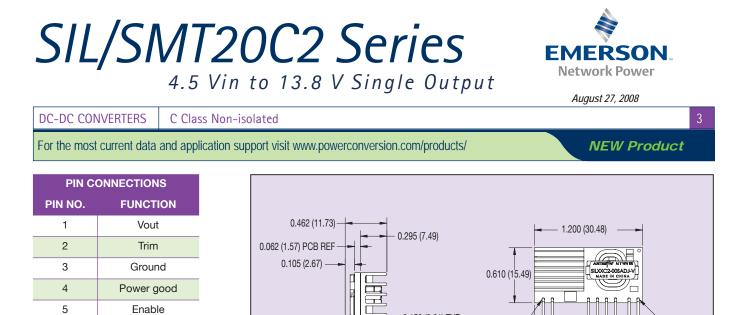


Figure 1: Standard Application Drawing



0.050 (1.27) REF

Dimensions in Inches (mm) Tolerances (unless otherwise specified) 2 Places ±0.030 (±0.76) 3 Places ±0.010 (±0.25)

Figure 2: Vertical Mount Mechanical Drawing

PIN 8

0 (0) (2.54) (5.08)

0.100

-PIN 1

(20.32) (22.86) (26.67) (26.67) (29.21)

.700 .900 .150

- 0.150 (3.81) TYP

0.025 (0.64) ±.001 SQ PIN TYP

8 PLACES

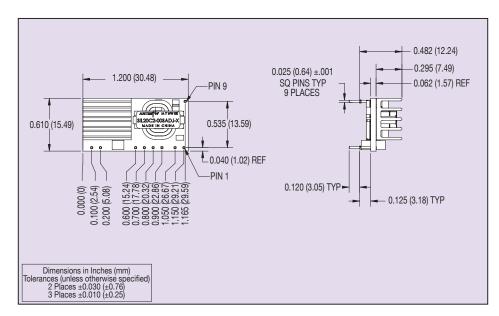


Figure 3: Horizontal Mount Mechanical Drawing

Vin

Remote Sense (+)

Remote Sense (-)

6

7

8

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PIN CONNECTIONS		
PIN NO.	FUNCTION	
1	Vout	
2	Trim	
3	Ground	
4	Power good	
5	Enable	
6	Vin	
7	Remote Sense (+)	
8	Remote Sense (-)	
9	*Mech Support	
10	*Mech Support	

\* Horizontal version only

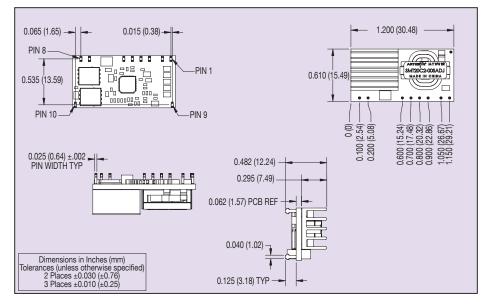


Figure 4: Surface Mount Mechanical Drawing

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Please consult our website for the following items: <a>Application Note</a> <a>Longform Datasheet</a>