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SIL10E Series Single output

DC/DC CONVERTERS E Class Non-isolated

• 10A Current rating

- Input voltage range: 3.0V 5.5V
- Output voltage range: 0.8V 3.63V
- Ultra high efficiency: 95% @ 5Vin and 3.3Vout
- Extremely low internal power dissipation
- Minimal thermal design concerns
- Designed in reliability: MTBF of >7 million hours per Telcordia SR-332
- Ideal solution where board space is at a premium or tighter card pitch is required
- Industry standard footprint and pin out

The SIL10E series are non-isolated DC/DC converters packaged in a single-in-line footprint giving designers a cost effective solution for conversion from either a 5V or a 3.3V source. The SIL10E offers a range of fixed outputs and one wide trim output unit at an industry leading 10A which allows maximum design flexibility and a pathway for future upgrades. The SIL10E is designed for applications that include distributed power, workstations, optical network and wireless applications. Implemented using state of the art surface mount technology and automated manufacturing techniques, the SIL10E offers compact size and efficiencies of up to 95%.

2 YEAR WARRANTY

SPECIFICATIONS

W.DZSC.CON

All specifications are typical at nominal input, full load at 25°C unless otherwise stated

OUTPUT SPECIFICATIONS

Voltage adjustability	Fixed output vers 5Vin with wide tri 3.3Vin with wide	m 3.6V to 0.8V
Setpoint accuracy		±2.7%
Line regulation		±1.0%
Load regulation		±1.0%
Minimum load	See and W	0A
Overshoot/undershoot	1	None
Ripple and noise 0 to 20MHz BW		50mV pk-pk 25mV rms max.
Temperature co-efficient		±0.01%/°C
Transient response		50mV max. deviation 50µs recovery to within ±1.0%
Remote sense		10% Vo compensation
INPUT SPECIFICATIONS		7TP COM
Input voltage range	CE RE	3.0 to 5.5VDC
Input current	No load	70mA
Input current (max.)		8A max. @ lo max. and Vout = 3.3V
Input current ripple		65mA rms
Remote ON/OFF		(See Note 1)
Start-up time		20ms

EMC CHARACTERISTICS

Electrostatic discharge Conducted immunity Radiated immunity EN61000-4-2, IEC801-2 EN61000-4-6 EN61000-4-3

GENERAL SPECIFICATIONS

Efficiency		See table
Insulation voltage		Non-isolated
Switching frequency	Fixed	300kHz typ.
Approvals and standards		EN60950 UL/cUL60950
Material flammability	111	UL94V-0
Dimensions (Vertical version)	(LxWxH)	50.8 x 7.8 x 12.7mm 2.0 x 0.31 x 0.5 inches
Pin length	Vertical 0.135	5 ±0.02 in (3.43 ±0.5mm)
Weight		5g (0.18oz)
MTBF	Telcordia SR-33	2 7,042,000
ENVIRONMENTAL SPE	CIFICATIONS	
Thermal performance	Operating ambi	ent, -40°C to +100°C
	Non-operating	-40°C to +125°C
PROTECTION		
Short-circuit protection		Continuous
Thermal protection		Automatic recovery

aternational Safety Standard Approvals

UL/cUL CAN/CSA 22.2 No. E174104



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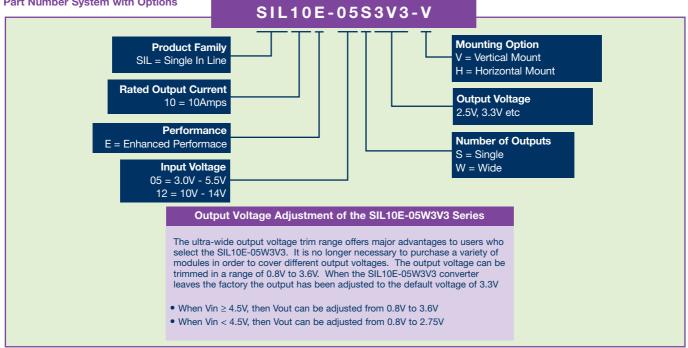
DC/DC CONVERTERS E Class Non-isolated

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NEW Product

OUTPUT POWER	INPUT	OUTPUT			EFFICIENCY	REGU	LATION	MODEL
(MAX.)	VOLTAGE	VOLTAGE	(MIN.)	(MAX.)	(TYP.)	LINE	LOAD	NUMBER
8.8W	3.0V - 5.5V	0.8V	0A	10A	83%	±1%	±1.5%	SIL10E-05S0V8-V
11W	3.0V - 5.5V	1.0V	0A	10A	86%	±1%	±1.5%	SIL10E-05S1V0-V
13.2W	3.0V - 5.5V	1.2V	0A	10A	88%	±1%	±1%	SIL10E-05S1V2-V ⁽³⁾
16.5W	3.0V - 5.5V	1.5V	0A	10A	90%	±1%	±1%	SIL10E-05S1V5-V
19.8W	3.0V - 5.5V	1.8V	0A	10A	92%	±1%	±1%	SIL10E-05S1V8-V
22W	3.0V - 5.5V	2.0V	0A	10A	93%	±1%	±1%	SIL10E-05S2V0-V
27.5W	3.0V - 5.5V	2.5V	0A	10A	94%	±1%	±1%	SIL10E-05S2V5-V ⁽³⁾
36.3W	4.5V - 5.5V	3.3V	0A	10A	95%	±1%	±1%	SIL10E-05S3V3-V
36.3W	4.5V - 5.5V	3.3V	0A	10A	95%	±1%	±1%	SIL10E-05W3V3-V





Notes

- 1 Referenced to ground for shutdown. If pin 6 is high unit will shutdown. If pin 6 is open unit will operate as normal. Converter is guaranteed OFF when control pin is greater than 1.2V.
- Full de-rating curves available in both the Long Form Data Sheet and 2 Application Note 134.
- For certain applications that use low ESR capacitors on the output of the 3 convertor and to insure maximum converter stability, please add the suffix '02' to the model, e.g. SIL10E-05S2V5-V02.

CAUTION: High internal temperatures. Ensure that unit is not user accessible.

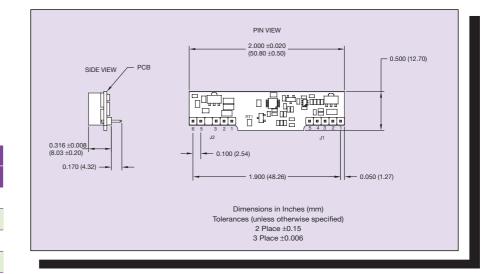
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NEW Product





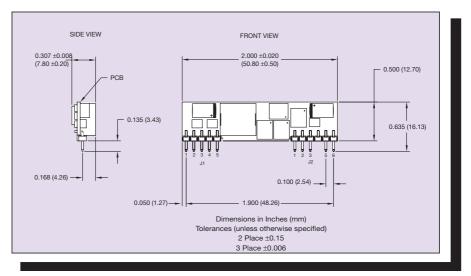


Figure 2: Mechanical Drawing - Vertical Mount Version

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PIN NUMBER	FUNCTION	
1	+Vout	
2	+Vout	
3	Remote Sense (+)	
4	+Vout	
5	Ground	
J2 PIN CONNECTIONS		
PIN NUMBER	FUNCTION	
PIN NUMBER	FUNCTION Ground	
	1	
1	Ground	
1	Ground +Vin	
1 2 3	Ground +Vin +Vin	

J1 PIN CONNECTIONS