Rev.3.4.09_90 SMT10E_05 Series 2 of 4

EMC Characteristics

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

General Specifications

Efficiency:		See table
Insulation voltage:		Non-isolated
Switching frequency:	Fixed	300 kHz typ.
Approvals and standards:		EN60950 UL/cUL60950
Material flammability:		UL94V-0
Dimensions	(L x W x H)	33.02 x 13.46 x 8.21 mm 1.3 x 0.53 x 0.323 inches
Weight:		6.3 g (0.22 oz)
Coplanarity:		100 μm
MTBF:	Telcordia SR-332 MIL-HDBK-217F	7,042,000 hours 680,000 hours

Environmental Specifications

Thermal performance: (See Note 3)	Operating ambient temperature	-40° C to +100 °C	
	Non-operating	-40 °C to +125 °C	

Protection

Short circuit:	Continuous
Thermal:	Automatic recovery

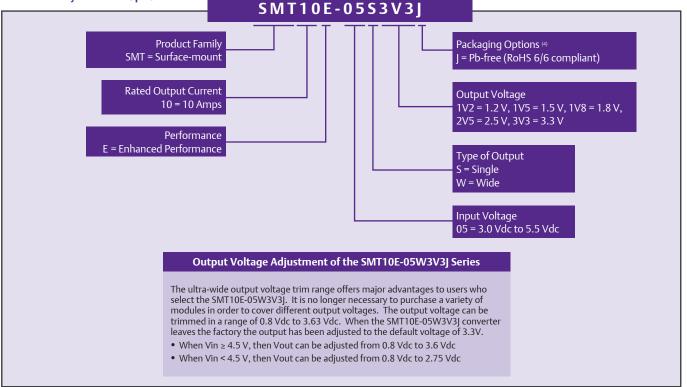
Ordering Information

Rev.3.4.09_90 SMT10E 05 Series 3 of 4

All specifications are typical at 5 Vin and 3.3 Vout, full load at 25 °C unless otherwise stated.

Ordering Information								
Output	Input Voltage Output Voltage	Output Voltago	Output Currents		Efficiency Regulat		ion	Model Numbers ^(2, 4, 5)
Power (Max.)		t voltage Output voltage	Min	Max	(typ.)	Line	Load	woder Numbers (-, %-)
13.2 W	3.0 - 5.5 Vdc	1.2 Vdc	0 A	10 A	89%	±0.2%	±1.0%	SMT10E-05S1V2J (EOL)
16.5 W	3.0 - 5.5 Vdc	1.5 Vdc	0 A	10 A	90%	±0.2%	±1.0%	SMT10E-05S1V5J (EOL)
19.8 W	3.0 - 5.5 Vdc	1.8 Vdc	0 A	10 A	92%	±0.2%	±1.0%	SMT10E-05S1V8J (EOL)
27.5 W	3.0 - 5.5 Vdc	2.5 Vdc	0 A	10 A	95%	±0.2%	±1.0%	SMT10E-05S2V5J (EOL)
36.3 W	4.5 - 5.5 Vdc	3.3 Vdc	0 A	10 A	96%	±0.2%	±1.0%	SMT10E-05S3V3J (EOL)
36.3 W	3.0 - 5.5 Vdc	0.8 - 3.63 Vdc	0 A	10 A	96%	±0.2%	±1.0%	SMT10E-05W3V3J

Part Number System with Options



Notes

Notes Continued

- When Vin \ge 4.5 V, then Vout can be adjusted from 0.8 Vdc to 3.6 Vdc. 1
- When Vin < 4.5 V, then Vout can be adjusted from 0.8 Vdc to 2.75 Vdc. The SMT10E features a 'Negative Logic' Remote ON/OFF operation. If 2
- ont using the Remote ON/OFF pin, leave the pin open (the converter will be on). The Remote ON/OFF pin is referenced to ground.

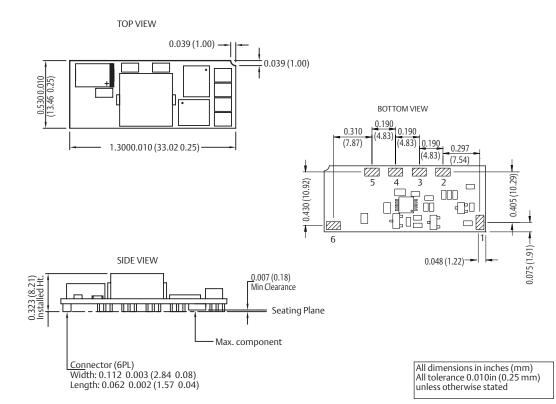
The following conditions apply for the SMT10E:

Configuration	Converter
Operation Remote pin open circuit	Unit is ON
Remote pin pulled low	Unit is ON
Remote pin pulled high [Von/off >1.2 V]	Unit is OFF

A 'Positive Logic' Remote ON/OFF version is also possible with this converter. To order please place the suffix '-R' at the end of the model number, e.g. SMT10E-05W3V3-RJ.

- 3 Full derating curves available in both the Longform Datasheet and Application Note 168.
- TSE RoHS 5/6 (non Pb-free) compliant versions may be available on special 4 request, please contact your local sales representative for details.
- 5 NOTICE: Some models do 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.

Mechanical Drawing



Pin Connections				
Pin Number	Function			
Pin 1	Remote ON/OFF			
Pin 2	Remote Sense +			
Pin 3	Trim			
Pin 4	+Vout			
Pin 5	Ground			
Pin 6	+Vin			

Americas

Rev.3.4.09_90 SMT10E_05 Series 4 of 4

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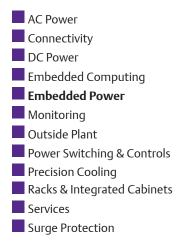
www.PowerConversion.com

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