

ISSUE DATE : 09.MAR,2021 Rev.2
 1.0 W Single Output Non-Regulated DC/DC Converter



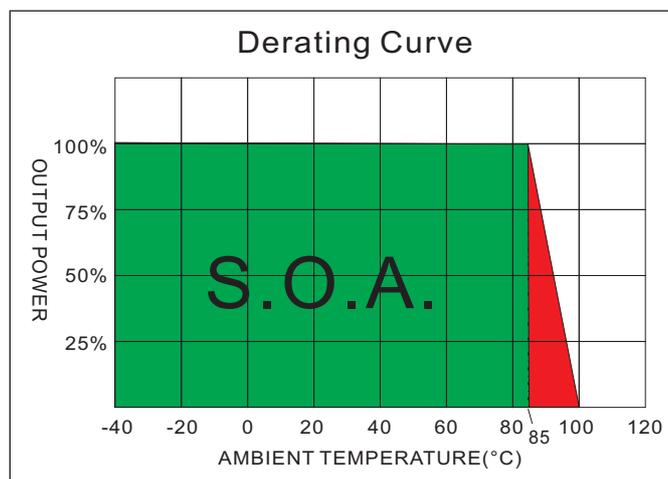
Note: This data sheet only for reference.

ALL SPECIFICATIONS ARE TYPICAL AT 25°C, NOMINAL INPUT AND FULL LOAD UNLESS OTHERWISE NOTED.

OUTPUT SPECIFICATIONS		PHYSICAL SPECIFICATIONS	
Output Voltage	5 Vdc, ±3%	Case Material	Non-conductive Black Plastic(UL94V-0 rated)
Output Current	200 mA, max.	Pin Material	0.5mm Alloy42 Solder-coated
Line Regulation	±1.3% / Per 1% Vin Change	Potting Material	Epoxy (UL94V-0 rated)
Load Regulation	(From 20% to 100% Load) ±10%	Weight	1.5g
Ripple&Noise (20 Mhz bandwidth)(1)	100mVpk-pk, max.	Dimensions	0.46"x0.24"x0.40"
Short Circuit Protection	Continuous	ENVIRONMENTAL SPECIFICATIONS	
Temperature Coefficient	±0.02%/°C	Operating Temperature	-40°C ~ +85°C
Capacitive Load(2)	100µF, max.	Maximum Case Temperature	100°C
INPUT SPECIFICATIONS		Storage Temperature	-40°C ~ +125°C
Input Voltage Range	5 Vdc, ±10%	Cooling	Nature Convection
Input Current(No-Load)	60mA, max.	GENERAL SPECIFICATIONS	
Input Current(Full-Load)	270.27mA, typ.	Efficiency	74%, min.
Input Filter	Capacitors	I/O Isolation Voltage(60sec)	3000 Vdc
Input Reflected Ripple Current(3)	20mApk-pk	I/O Isolation Resistance	1000 MΩ, min.
ABSOLUTE SPECIFICATIONS(4)		I/O Isolation Capacitance	60 pF, typ.
These are stress ratings. Exposure of devices to any of these conditions may adversely affect long-term reliability.		Switching Frequency	65kHz, typ.
Input Surge Voltage(100mS)	7 Vdc ,max.	Humidity	95% rel H
Soldering Temperature (1.5mm from case 10sec max.)	260°C ,max.	Reliability Calculated MTBF(MIL-HDBK-217 F)	>1.121 Mhrs
		Safety Standard (designed to meet)	IEC/EN 60950-1 , 62368-1 UL/cUL 60950-1 , 62368-1

NOTE

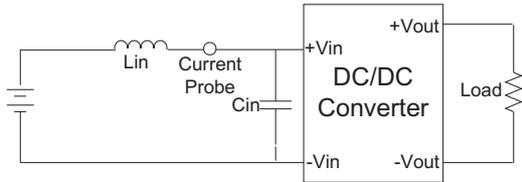
1. Ripple/Noise measured with 20MHz bandwidth.
2. Tested by minimal Vin and constant resistive load.
3. Measured Input reflected ripple current with a simulated source inductance of 12µH and a source capacitor Cin(47µF, ESR<1.0Ω at 100KHz).
4. Exceeding the absolute ratings of the unit could cause damage. It is not allowed for continuous operating.
5. Operation under no-load conditions will not damage these devices, however they may not meet all listed specifications.



TEST CONFIGURATIONS

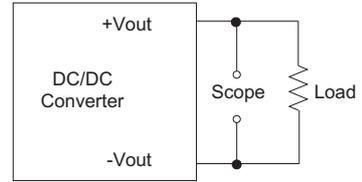
Input Reflected Ripple Current Test Step

Input reflected ripple current is measured through a source inductor L_{in} ($12\mu\text{H}$) and a source capacitor C_{in} ($47\mu\text{F}$, $\text{ESR} < 1.0\Omega$ at 100kHz) at nominal input and full load.

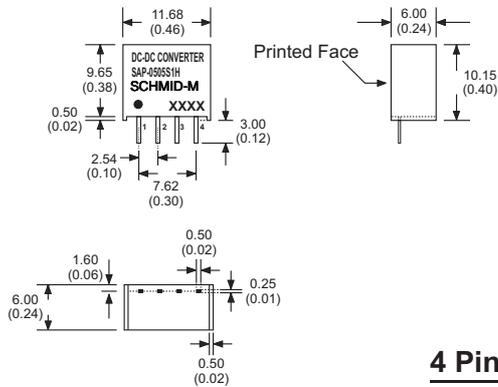


Output Ripple & Noise Measurement Test

The Scope measurement bandwidth is 20MHz .



MECHANICAL DIMENSION



Pin #	Connection
1	-V Input
2	+V Input
3	-V Output
4	+V Output

4 Pin SIL Package

- Notes: All dimensions are typical in millimeters (inches).
1. Pin diameter: 0.5 ± 0.05 (0.02 ± 0.002)
 2. Pin pitch and length tolerance: ± 0.35 (± 0.014)
 3. Case Tolerance: ± 0.5 (± 0.02)