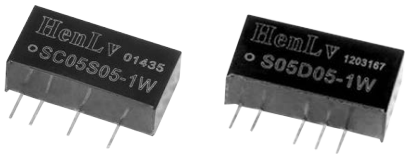
SCxxSxx/SxxDxx DC/DC Series

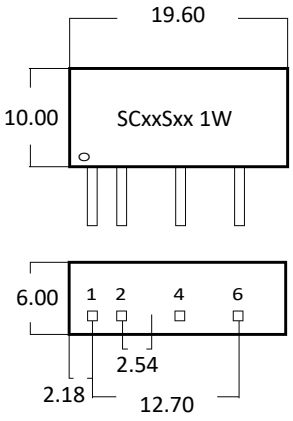
1W DC/DC Single or Dual Output, Plastic Case, Unregulated

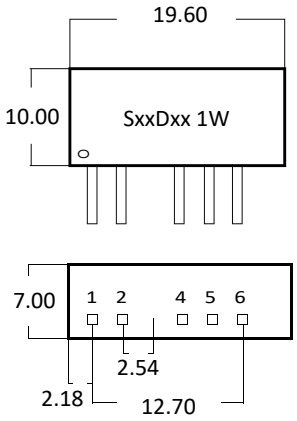


- Single or Dual Output Voltage
- Wide Operating Temperature
- MTBF: 2.000.000 Calculated Hours
- Plastic UL94-V0

Technical Shortform Specification		
Electrical Specification	Input Voltage:	5Vdc / 12Vdc / 24Vdc (Input ±5%)
	Output Voltage (Vout):	See Product Chart page 2.
	Switch Frequency:	50kHz to 800kHz
	Ripple & Noise:	5Vdc: 50mVp-p Max.
		9Vdc: 60mVp-p Max.
		12Vdc / 15Vdc / 24Vdc: 100mVp-p Max.
	Efficiency:	Up to 78%
	Output Load Efficiency:	≤ ±3% (10% to 100% Load)
	No Load Voltage:	5Vdc, 9Vdc (0.8Vdc Max.) / 12Vdc, 15Vdc, 24Vdc (1.5Vdc Max.)
	TEMP. Coefficient:	≤ ±0.03% °C (Celsius)
	MTBF:	2.000.000 Hours
Protection (Auto Recovery)	Isolation I/O:	Single Output: 1000V / 0.5mA for 1min
		Dual Output: 1500V / 0.5mA for 1min
	Short Circuit Protection:	Short Circuit (1sec)
	Over Load Protection:	YES
	Over TEMP. Protection:	YES
Certification & EMI	Certifications:	CE / RoHS
	EMC:	EN61000
Environmental	Operating TEMP.:	-45°C to +85°C
	Storage TEMP.:	-45°C to +125°C
	Cooling:	Natural Cooling
Dimension & Material	Case Size (L x H x W):	19.60 x 10.00 x 6.00mm
	Weight:	2.5g - 2.6g (±0.5)
	Case Material:	Plastic UL94-V0
	Soldering Temperature:	≤10sec 300°C Max.

Note - *Non Load Operation for a Long Time is NOT Recommended*
For complete Datasheet/Specification and Drawing please contact Power Outlet





SCxxSxx = Single Output

Pin	Function
1	Vin
2	GND
4	0V
6	Vout

SxxDxx = Dual Output

Pin	Function
1	Vin
2	GND
4	Vout-
5	Com
6	Vout+

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Product Chart

Model	Input Voltage (Vdc)	Output Voltage (Vout)	Load Current (mA)	Ripple & Noise (mVp-p Max.)	Efficiency (%)
SC05S3.3 1W	5Vdc ±5%	3.3 Vdc	303 mA	50 mV	72 %
SC05S05 1W		5 Vdc	200 mA	50 mV	72 %
SC05S12 1W		12 Vdc	83 mA	100 mV	75 %
SC05S15 1W		15 Vdc	67 mA	100 mV	75 %
SC05S24 1W		24 Vdc	42 mA	100 mV	78 %
SC12S3.3 1W	12Vdc ±5%	3.3 Vdc	303 mA	50 mV	72 %
SC12S05 1W		5 Vdc	200 mA	50 mV	72 %
SC12S12 1W		12 Vdc	83 mA	100 mV	75 %
SC12S15 1W		15 Vdc	67 mA	100 mV	75 %
SC12S24 1W		24 Vdc	42 mA	100 mV	78 %
SC24S3.3 1W	24Vdc ±5%	3.3 Vdc	303 mA	50 mV	72 %
SC24S05 1W		5 Vdc	200 mA	50 mV	72 %
SC24S12 1W		12 Vdc	83 mA	100 mV	75 %
SC24S15 1W		15 Vdc	67 mA	100 mV	75 %
SC24S24 1W		24 Vdc	42 mA	100 mV	78 %
S05D3.3 1W	5Vdc ±5%	± 3.3 Vdc	± 303 mA	50 mV	72 %
S05D05 1W		± 5 Vdc	± 200 mA	50 mV	72 %
S05D12 1W		± 12 Vdc	± 82 mA	100 mV	75 %
S05D15 1W		± 15 Vdc	± 66 mA	100 mV	75 %
S05D24 1W		± 24 Vdc	± 42 mA	100 mV	78 %
S12D3.3 1W	12Vdc ±5%	± 3.3 Vdc	± 303 mA	50 mV	72 %
S12D05 1W		± 5 Vdc	± 200 mA	50 mV	72 %
S12D12 1W		± 12 Vdc	± 82 mA	100 mV	75 %
S12D15 1W		± 15 Vdc	± 66 mA	100 mV	75 %
S12D24 1W		± 24 Vdc	± 42 mA	100 mV	78 %
S24D3.3 1W	24Vdc ±5%	± 3.3 Vdc	± 303 mA	50 mV	72 %
S24D05 1W		± 5 Vdc	± 200 mA	50 mV	75 %
S24D12 1W		± 12 Vdc	± 82 mA	100 mV	75 %
S24D15 1W		± 15 Vdc	± 66 mA	100 mV	78 %
S24D24 1W		± 24 Vdc	± 42 mA	100 mV	78 %

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