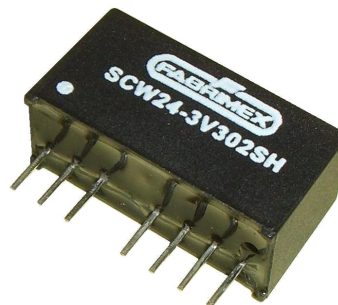


Reg. Nr. 12666

DC/DC Wide Input Converter SCW 02 Series



- 2W Isolated Output
- Regulated Outputs
- Compact SIP-8 Package
- Remote On/Off Control
- Efficiency to 83%
- 1500VDC Isolation
- Continuous Short Circuit Protection
- 2:1 Input Range

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Product Range

Typenübersicht

Sommaire des types

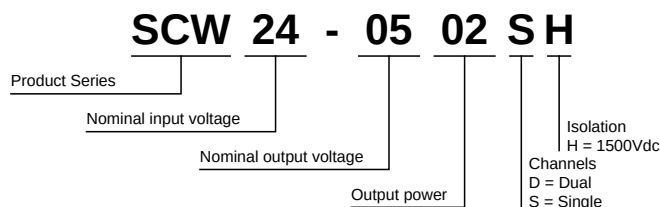
Model	Input nominal	Input range	Input current @ Uin nom. full load	no load	Uout	Output Iout max.	power	Efficiency typ.
Single								
SCW05-3V302SH	5VDC	4.5...9VDC	458mA	60mA	3.3VDC	500mA	1.7W	72%
SCW05-0502SH	5VDC	4.5...9VDC	526mA	60mA	5.0VDC	400mA	2W	76%
SCW05-1202SH	5VDC	4.5...9VDC	507mA	60mA	12VDC	167mA	2W	79%
SCW05-1502SH	5VDC	4.5...9VDC	503mA	60mA	15VDC	134mA	2W	80%
SCW12-3V302SH	12VDC	9...18VDC	186mA	30mA	3.3VDC	500mA	1.7W	74%

SCW12-0502SH	12VDC	9...18VDC	214mA	30mA	5.0VDC	400mA	2W	78%
SCW12-1202SH	12VDC	9...18VDC	206mA	30mA	12VDC	167mA	2W	81%
SCW12-1502SH	12VDC	9...18VDC	204mA	30mA	15VDC	134mA	2W	82%
SCW24-3V302SH	24VDC	18...36VDC	90mA	18mA	3.3VDC	500mA	1.7W	76%
SCW24-0502SH	24VDC	18...36VDC	107mA	18mA	5.0VDC	400mA	2W	78%
SCW24-1202SH	24VDC	18...36VDC	103mA	18mA	12VDC	167mA	2W	81%
SCW24-1502SH	24VDC	18...36VDC	102mA	18mA	15VDC	134mA	2W	82%
SCW48-3V302SH	48VDC	36...72VDC	47mA	9mA	3.3VDC	500mA	1.7W	74%
SCW48-0502SH	48VDC	36...72VDC	53mA	9mA	5.0VDC	400mA	2W	78%
SCW48-1202SH	48VDC	36...72VDC	51mA	9mA	12VDC	167mA	2W	82%
SCW48-1502SH	48VDC	36...72VDC	50mA	9mA	15VDC	134mA	2W	83%
Dual								
SCW05-0502DH	5VDC	4.5...9VDC	526mA	60mA	+5.0VDC -5.0VDC	+200mA -200mA	1.0W 1.0W	76%
SCW05-1202DH	5VDC	4.5...9VDC	498mA	60mA	+12VDC -12VDC	+83mA -83mA	1.0W 1.0W	80%
SCW05-1502DH	5VDC	4.5...9VDC	503mA	60mA	+15VDC -15VDC	+67mA -67mA	1.0W 1.0W	80%
SCW12-0502DH	12VDC	9...18VDC	208mA	30mA	+5.0VDC -5.0VDC	+200mA -200mA	1.0W 1.0W	80%
SCW12-1202DH	12VDC	9...18VDC	202mA	30mA	+12VDC -12VDC	+83mA -83mA	1.0W 1.0W	82%
SCW12-1502DH	12VDC	9...18VDC	204mA	30mA	+15VDC -15VDC	+67mA -67mA	1.0W 1.0W	82%
SCW24-0502DH	24VDC	18...36VDC	107mA	18mA	+5.0VDC -5.0VDC	+200mA -200mA	1.0W 1.0W	78%
SCW24-1202DH	24VDC	18...36VDC	102mA	18mA	+12VDC -12VDC	+83mA -83mA	1.0W 1.0W	81%
SCW24-1502DH	24VDC	18...36VDC	102mA	18mA	+15VDC -15VDC	+67mA -67mA	1.0W 1.0W	82%
SCW48-0502DH	48VDC	36...72VDC	53mA	9mA	+5.0VDC -5.0VDC	+200mA -200mA	1.0W 1.0W	78%
SCW48-1202DH	48VDC	36...72VDC	50mA	9mA	+12VDC -12VDC	+83mA -83mA	1.0W 1.0W	83%
SCW48-1502DH	48VDC	36...72VDC	51mA	9mA	+15VDC -15VDC	+67mA -67mA	1.0W 1.0W	82%

Nomenclature

Nomenklatur

Nomenclature



All values refer to an ambient temperature of 25°C and nominal rated values where nothing else is specified.

Input Specifications

Characteristic	Conditions	min	typ	max	unit
U_{IN} Input voltage		See	product	range	V
U_{UVLO} Under voltage lockout					V
Max. input current at full load		See	product	range	A
No load input current		See	product	range	mA

Output Specifications

Characteristic	Conditions	min	typ	max	unit
U_{ACC} Output voltage accuracy		± 1.5			%
Output voltage adjust					%
Line regulation			± 0.5		%
Load regulation	10% / 100% step load change		s: ± 0.5 , d: ± 1		%
Load transient recovery time	25% / 100% step load change		< 500		μ s
Load transient error band			± 6		%
Temperature coefficient			± 0.03		%/K
Ramp up time					ms
Start up time					ms
Ripple and noise	BW = 20MHz	75			mVpp
Current limit					%
Over voltage protection					%
Short circuit protection					%
Short circuit characteristic		continuous			

General Specifications

Characteristic	Conditions	min	typ	max	unit
U_{ISO} Isolation voltage		1500			V
R_{ISO} Isolation resistance		> 1G			Ohm
R_{ISO} Switching frequency		100			kHz
Approvals					
MTBF					h
Case material		Non-Conductiv Black Plastic			
Compound material					
PCB material					
Weight		4.8			gr
Dimensions		21.8 x 9.2 x 11.1			mm
Soldering infos		275°C for 10			s

EMC Specifications

Characteristic	Conditions	min	typ	max	unit
EMC conducted					

Environmental Specifications

Characteristic		Conditions	min	typ	max	unit
T _{CASE}	Operation temperature		-40...+85			°C
T _{AMB}	Storage temperature		-55...+125			°C
T _{SD}	Thermal shutdown range		Tcase = 100			°C

Own notes

Eigene Notizen

Vos notices

No EMC graph available yet, please contact factory

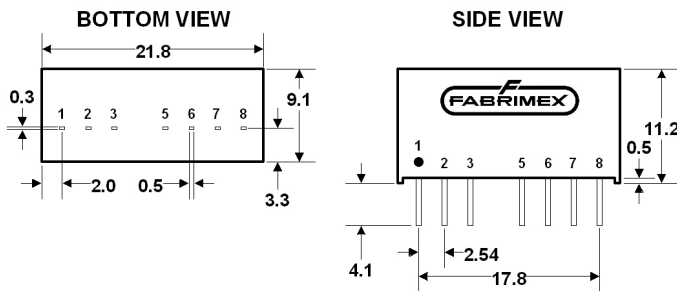
No EMC filter available yet, please contact factory

Case

Gehäuse

Boîtier

Normal tolerance 1/10 ± 0.5 mm, 1/100 ± 0.25 mm; Pin tolerance ± 0.5 mm diameter, NP = No pin, NC = Not connected



Pin	Single	Dual	Pin
1	-Vi	-Vi	1
2	+Vi	+Vi	2
3	on/off	on/off	3
5	NC	NC	5
6	+Vo	+Vo	6
7	-Vo	Com	7
8	NC	-Vo	8

Cleaning

Waschen

Lavage

The modules are cleanable with the today's known and in the electronics industry usually used products. Due to the different cleaning processes and new available products, we highly recommend to do a compatibility test when using the converters the first time.

Die Module sind waschbar mit den heute bekannten und in der Elektronikindustrie üblichen Reinigungsmitteln. Bedingt durch die verschiedenen Reinigungsprozesse und neu auf den Markt kommende Mittel, raten wir dringend beim Ersteinsatz der Konverter eine Verträglichkeitsprüfung vorzunehmen.

Les modules sont lavables avec les solvants couramment utilisés dans l'industrie électronique. Dû aux différents processus de lavage et aux nouveaux détergents disponibles sur le marché, il est strictement recommandé de faire un test de compatibilité avant la première utilisation.

Own notes

Eigene Notizen

Vos notices

Notice: All statements, technical information, and recommendations related to FABRIMEX's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use.

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