

Stand: 05/08

Regulated
Case Style: SIP 8

COMMERCIAL DC/DC Converters

1 Watt / 2 Watt
Series: SL8W2

Electrical specifications:

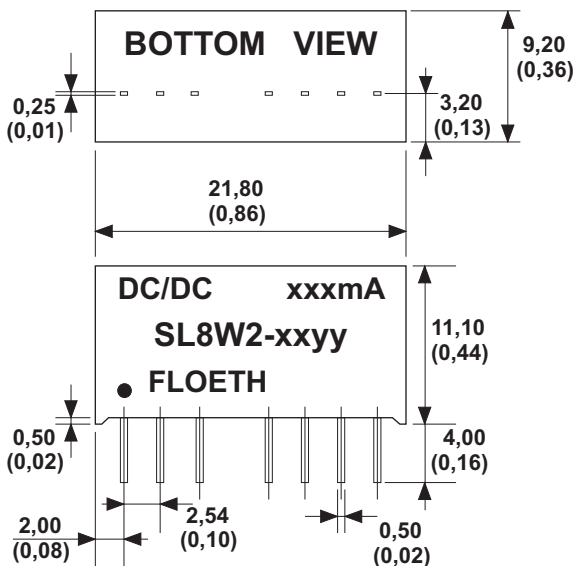
Input Voltage: wide 2:1
Output Voltage Accuracy: typ. $\pm 2\%$
Line Regulation: max. $\pm 0,5\%$
Load Regulation (25% to 100% load): typ. $\pm 0,5\%$
Efficiency: up to 85%

Output Ripple & Noise @ 20MHz BW: max. 50mVp-p
Short Circuit Protection: continuous
Operating Temperature: -40°C to $+85^{\circ}\text{C}$
Isolation Voltage: min. 1000V DC
Other Isolation Voltages on request!

CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

SINGLE Part - No.	Input Voltage	Output Voltage	1 Watt		2 Watt		DUAL Part - No.	Input Voltage	Output Voltage	1 Watt		2 Watt	
			Output Current	Output Current	Output Current	Output Current				Output Current	Output Current		
SL8W2-0503,3 SL8W2-0505 SL8W2-0509 SL8W2-0512 SL8W2-0515	4,5 - 9V	3,3V 5,0V 9,0V 12,0V 15,0V	300mA 200mA 111mA 83mA 67mA	500mA 400mA 222mA 166mA 134mA	SL8W2-0503,3D SL8W2-0505D SL8W2-0509D SL8W2-0512D SL8W2-0515D	4,5 - 9V	$\pm 3,3\text{V}$ $\pm 5,0\text{V}$ $\pm 9,0\text{V}$ $\pm 12,0\text{V}$ $\pm 15,0\text{V}$	$\pm 150\text{mA}$ $\pm 100\text{mA}$ $\pm 56\text{mA}$ $\pm 42\text{mA}$ $\pm 34\text{mA}$	$\pm 250\text{mA}$ $\pm 200\text{mA}$ $\pm 111\text{mA}$ $\pm 83\text{mA}$ $\pm 67\text{mA}$				
SL8W2-1203,3 SL8W2-1205 SL8W2-1209 SL8W2-1212 SL8W2-1215	9 - 18V	3,3V 5,0V 9,0V 12,0V 15,0V	300mA 200mA 111mA 83mA 67mA	500mA 400mA 222mA 166mA 134mA	SL8W2-1203,3D SL8W2-1205D SL8W2-1209D SL8W2-1212D SL8W2-1215D	9 - 18V	$\pm 3,3\text{V}$ $\pm 5,0\text{V}$ $\pm 9,0\text{V}$ $\pm 12,0\text{V}$ $\pm 15,0\text{V}$	$\pm 150\text{mA}$ $\pm 100\text{mA}$ $\pm 56\text{mA}$ $\pm 42\text{mA}$ $\pm 34\text{mA}$	$\pm 250\text{mA}$ $\pm 200\text{mA}$ $\pm 111\text{mA}$ $\pm 83\text{mA}$ $\pm 67\text{mA}$				
SL8W2-2403,3 SL8W2-2405 SL8W2-2409 SL8W2-2412 SL8W2-2415	18 - 36V	3,3V 5,0V 9,0V 12,0V 15,0V	300mA 200mA 111mA 83mA 67mA	500mA 400mA 222mA 166mA 134mA	SL8W2-2403,3D SL8W2-2405D SL8W2-2409D SL8W2-2412D SL8W2-2415D	18 - 36V	$\pm 3,3\text{V}$ $\pm 5,0\text{V}$ $\pm 9,0\text{V}$ $\pm 12,0\text{V}$ $\pm 15,0\text{V}$	$\pm 150\text{mA}$ $\pm 100\text{mA}$ $\pm 56\text{mA}$ $\pm 42\text{mA}$ $\pm 34\text{mA}$	$\pm 250\text{mA}$ $\pm 200\text{mA}$ $\pm 111\text{mA}$ $\pm 83\text{mA}$ $\pm 67\text{mA}$				
SL8W2-4803,3 SL8W2-4805 SL8W2-4809 SL8W2-4812 SL8W2-4815	36 - 72V	3,3V 5,0V 9,0V 12,0V 15,0V	300mA 200mA 111mA 83mA 68mA	500mA 400mA 222mA 166mA 134mA	SL8W2-4803,3D SL8W2-4805D SL8W2-4809D SL8W2-4812D SL8W2-4815D	36 - 72V	$\pm 3,3\text{V}$ $\pm 5,0\text{V}$ $\pm 9,0\text{V}$ $\pm 12,0\text{V}$ $\pm 15,0\text{V}$	$\pm 150\text{mA}$ $\pm 100\text{mA}$ $\pm 56\text{mA}$ $\pm 42\text{mA}$ $\pm 34\text{mA}$	$\pm 250\text{mA}$ $\pm 200\text{mA}$ $\pm 111\text{mA}$ $\pm 83\text{mA}$ $\pm 67\text{mA}$				

Any other output voltage available !



ALL DIMENSIONS IN MM (INCHES)
MILLIMETERS +/- 0,25mm
(INCHES +/- 0,01")
All pins on a 2,54mm pitch

PIN CONNECTION		
PIN	SINGLE	DUAL
1	- Vin	- Vin
2	+ Vin	+ Vin
3	NP Optional: CTRL	CTRL
5	NE	NE
6	+Vout	+Vout
7	- Vout	COM
8	CS Optional external capacitor	- Vout

NC = No Connection
NP = No Pin

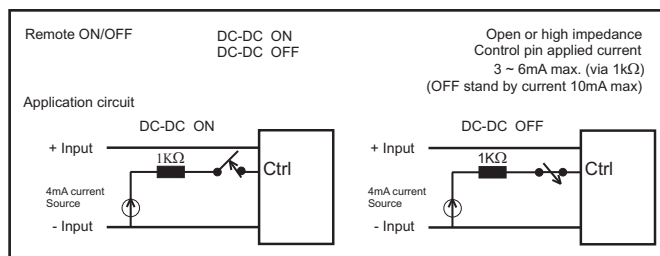
Pin 5 (NE)

This pin is used internally and must have no external connection

Pin 8 (Cs)

This pin provides a connection point to the main reservoir capacitor. Additional capacitance can be added from this pin 7.

Any low esr capacitor will improve ripple and noise in some measure. The benefit of this access point over simple additional output capacitance is that it precedes the output filter inductor. Maximum values of external capacitance will be dependent on the output voltage / loading of the converter and the desired ripple figure. Starting values can be in the range of 100 μF



Specification may be changed without notice
please contact office for verification

We can offer EMC - Filter
according to EN55011/22 Class B.

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 www.floeth-electronic.com



Stand: 05/08

Regulated
 Case Style: SIP 8

COMMERCIAL DC/DC Converters

1 Watt / 2 Watt
 Series: SL8W4

Electrical specifications:

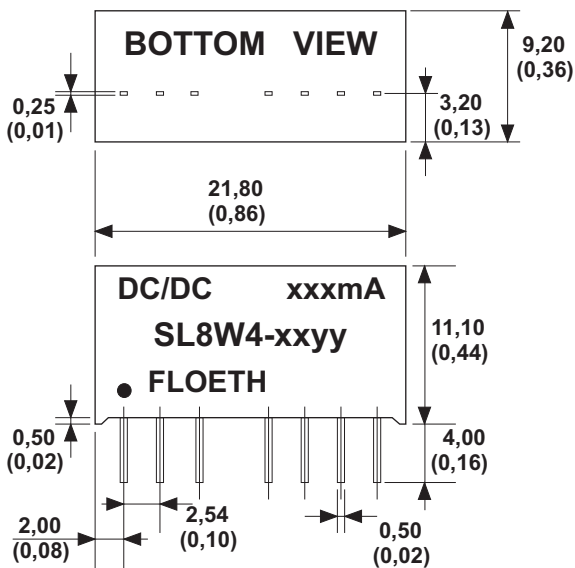
Input Voltage: wide 4:1
 Output Voltage Accuracy: typ. $\pm 2\%$
 Line Regulation: max. $\pm 0,5\%$
 Load Regulation (20% to 100% load): typ. $\pm 0,5\%$
 Efficiency: up to 84%

Output Ripple & Noise @ 20MHz BW: max. 50mVp-p
 Short Circuit Protection: continuous
 Operating Temperature: -40°C to $+85^{\circ}\text{C}$
 Isolation Voltage: min. 1000V DC
 Part-Nr. /H2: min. 2000V DC
 Part-Nr. /H3: min. 3000V DC

CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

			1 Watt	2 Watt				1 Watt	2 Watt
SINGLE Part - No.	Input Voltage	Output Voltage	Output Current	Output Current	DUAL Part - No.	Input Voltage	Output Voltage	Output Current	Output Current
SL8W4-2403,3	9 - 36V	3,3V	300mA	500mA	SL8W4-2403,3D	9 - 36V	$\pm 3,3\text{V}$	$\pm 150\text{mA}$	$\pm 250\text{mA}$
SL8W4-2405		5,0V	200mA	400mA	SL8W4-2405D		$\pm 5,0\text{V}$	$\pm 100\text{mA}$	$\pm 200\text{mA}$
SL8W4-2409		9,0V	111mA	222mA	SL8W4-2409D		$\pm 9,0\text{V}$	$\pm 56\text{mA}$	$\pm 111\text{mA}$
SL8W4-2412		12,0V	83mA	166mA	SL8W4-2412D		$\pm 12,0\text{V}$	$\pm 42\text{mA}$	$\pm 83\text{mA}$
SL8W4-2415		15,0V	67mA	134mA	SL8W4-2415D		$\pm 15,0\text{V}$	$\pm 34\text{mA}$	$\pm 67\text{mA}$
SL8W4-4803,3	18 - 72V	3,3V	300mA	500mA	SL8W4-4803,3D	18 - 72V	$\pm 3,3\text{V}$	$\pm 150\text{mA}$	$\pm 250\text{mA}$
SL8W4-4805		5,0V	200mA	400mA	SL8W4-4805D		$\pm 5,0\text{V}$	$\pm 100\text{mA}$	$\pm 200\text{mA}$
SL8W4-4809		9,0V	111mA	222mA	SL8W4-4809D		$\pm 9,0\text{V}$	$\pm 56\text{mA}$	$\pm 111\text{mA}$
SL8W4-4812		12,0V	83mA	166mA	SL8W4-4812D		$\pm 12,0\text{V}$	$\pm 42\text{mA}$	$\pm 83\text{mA}$
SL8W4-4815		15,0V	67mA	134mA	SL8W4-4815D		$\pm 15,0\text{V}$	$\pm 34\text{mA}$	$\pm 67\text{mA}$

Any other output voltages available !



ALL DIMENSIONS IN MM (INCHES)
 MILLIMETERS +/- 0,25mm
 (INCHES +/- 0,01")
 All pins on a 2,54mm pitch

PIN CONNECTION		
PIN	SINGLE	DUAL
1	- Vin	- Vin
2	+ Vin	+ Vin
3	NP Optional: CTRL	CTRL
5	NE	NE
6	+Vout	+Vout
7	- Vout	COM
8	CS Optional external capacitor	- Vout

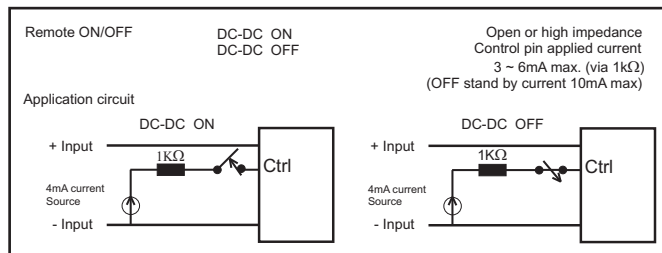
NC = No Connection
 NP = No Pin

Pin 5 (NE)

This pin is used internally and must have no external connection

Pin 8 (Cs)

This pin provides a connection point to the main reservoir capacitor. Additional capacitance can be added from this pin 7. Any low esr capacitor will improve ripple and noise in some measure. The benefit of this access point over simple additional output capacitance is that it precedes the output filter inductor. Maximum values of external capacitance will be dependent on the output voltage / loading of the converter and the desired ripple figure. Starting values can be in the range of 100µF



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Regulated
Case Style: SIP 8

COMMERCIAL DC/DC Converters

Stand: 35/07
3 Watt
Series: SL8W2

Electrical specifications:

Input voltage: wide 1:2
Output voltage accuracy: max. +/- 2%
minimum Load: 10% of full load
Line regulation: max. +/- 0,5%
Load regulation: max. +/- 0,5%

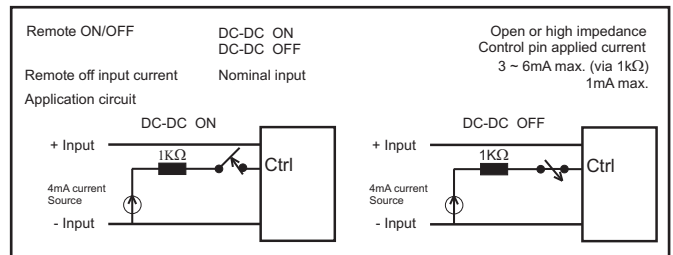
Output Ripple & Noise @ 20MHz BW: max. 100 mVp-p
Short circuit protection: continuous
Operating temperature: -25°C to +71°C
Isolation voltage: min. 1000V DC
Efficiency: min. 73%

CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

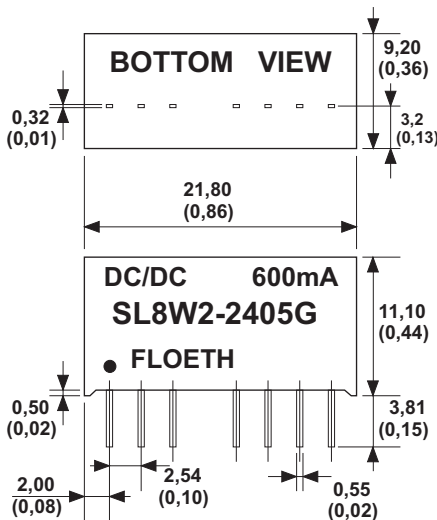
Single Part - No.	Input Voltage	Output Voltage	Output current
SL8W2-0505G SL8W2-0509G SL8W2-0512G SL8W2-0515G	4,5 - 9V	5,0V 9,0V 12,0V 15,0V	600mA 333mA 250mA 200mA
SL8W2-1203,3G SL8W2-1205G SL8W2-1209G SL8W2-1212G SL8W2-1215G	9 - 18V	3,3V 5,0V 9,0V 12,0V 15,0V	700mA 600mA 333mA 250mA 200mA
SL8W2-2405G SL8W2-2409G SL8W2-2412G SL8W2-2415G	18 - 36V	5,0V 9,0V 12,0V 15,0V	600mA 333mA 250mA 200mA
SL8W2-4803,3G SL8W2-4805G SL8W2-4809G SL8W2-4812G SL8W2-4815G	36 - 72V	3,3V 5,0V 9,0V 12,0V 15,0V	700mA 600mA 333mA 250mA 200mA

Note:

The SL8W2 series required a minimum 10% loading at the output to maintain specified regulation. Operation under no-load condition will not damage these devices, however they may not meet all listed specification.



Any other output voltages available !



PIN CONNECTION	
PIN	SINGLE
1	- Vin
2	+ Vin
3	Remote On/Off
5	NC
6	+Vout
7	- Vout
8	NC

NC = No connection

Input Capacitor recommended to reduce input reflected ripple current

Uin 5V / 12V 100µF low ESR
Uin 24V / 48V 10µF low ESR

ALL DIMENSIONS IN MM (INCHES)
MILLIMETERS +/- 0,25mm
(INCHES +/- 0,01")
All pins on a 2,54mm pitch

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