

Stand: 07/14

Unregulated
Case Style: SIP 7

INDUSTRIAL DC/DC Converters SHORT CIRCUIT PROOF

1 Watt / 2 Watt
Series: FS7U

Electrical specifications:

Input voltage range:	+/- 10%
Output voltage accuracy:	+/- 5% @ 50% Load
Line Vin/Vout:	+/- 1% / +/-1%
Output voltage change:	3.3V, 5V output types 15% max.
(10% to 100% full load)	2W 5V input series 15% max.
	9V ~ 24V output types 10% max.
Output Ripple & Noise	1W: 150mVp-p // 2W: 200mVp-p
Operating temperature:	-40°C to +95°C
Ambient temperature:	-40°C to +71°C
L - Version:	Ambient 0°C to +71°C

Efficiency:	up to 80%
Short circuit protection:	continuous
Insulation test voltage:	2000V DC
Optional:	
Part-Nr. /0	no short circuit protection
Part-Nr. /H	Insulation voltage optional 3000V DC
**Part-Nr. /3:	Test voltage optional 3000V AC rms
Part-Nr. /8:	asymmetrically load
Part-Nr. /2:	0,25W output power
Part-Nr. /5:	0,5W output power
Part-Nr. /9:	Ambient temperature -40°C to +85°C

CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

Single Output			1 Watt	2 Watt**	Dual Output			1 Watt	2 Watt**
Part - No.	Input Voltage	Output Voltage	Output current	Output current	Part - No.	Input Voltage	Output Voltage	Output current	Output current
FS7U-0505	5V	5V	200mA	400mA	FS7U-0505D	5V	+/- 5V	+/-100mA	+/-200mA
FS7U-0512		12V	83mA	166mA	FS7U-0512D		+/-12V	+/- 41mA	+/- 83mA
FS7U-0515		15V	66mA	132mA	FS7U-0515D*		+/-15V	+/- 33mA	+/- 66mA
FS7U-1205	12V	5V	200mA	400mA	FS7U-1205D	12V	+/- 5V	+/-100mA	+/-200mA
FS7U-1212		12V	83mA	166mA	FS7U-1212D		+/-12V	+/- 41mA	+/- 83mA
FS7U-1215		15V	66mA	132mA	FS7U-1215D		+/-15V	+/- 33mA	+/- 66mA
FS7U-1505	15V	5V	200mA	400mA	FS7U-1505D	15V	+/- 5V	+/-100mA	+/-200mA
FS7U-1512		12V	83mA	166mA	FS7U-1512D		+/-12V	+/- 41mA	+/- 83mA
FS7U-1515		15V	66mA	132mA	FS7U-1515D		+/-15V	+/- 33mA	+/- 66mA
FS7U-2405	24V**	5V	200mA	400mA	FS7U-2405D	24V**	+/- 5V	+/-100mA	+/-200mA
FS7U-2412		12V	83mA	166mA	FS7U-2412D		+/-12V	+/- 41mA	+/- 83mA
FS7U-2415		15V	66mA	132mA	FS7U-2415D		+/-15V	+/- 33mA	+/- 66mA
FS7U-2424		24V	41mA	82mA					

The input voltage can be increased by the value of the selected output voltage in boost operation (see Application Note C43, page 149).

L - Version 1W: lin (no load) ~ 14mA *
 2W: lin (no load) ~ 22mA *

Any other input & output voltages available

(for example 3,3V)

PIN CONNECTION					
PIN	SINGLE	SINGLE A*	SINGLE /3* SINGLE /H* SINGLE /B*	DUAL	DUAL /3* DUAL /H* DUAL /B*
1	VCC	VCC	VCC	VCC	VCC
2	GND	GND	GND	GND	GND
3	NP	NP	NP	NP	NP
4	NC	-Vout	NP	-Vout	NP
5	-Vout	NC	-Vout	COM	-Vout
6	+Vout	+Vout	NP	+Vout	COM
7	NP	NP	+Vout	NP	+Vout

* For other pinning add "A" or "/3" or "/H" to the end of Partnumber. for example: FS7U-0505A, FS7U-0505/3

ALL DIMENSIONS IN MM
MILLIMETERS +/- 0,25mm

All pins on a 2,54mm pitch

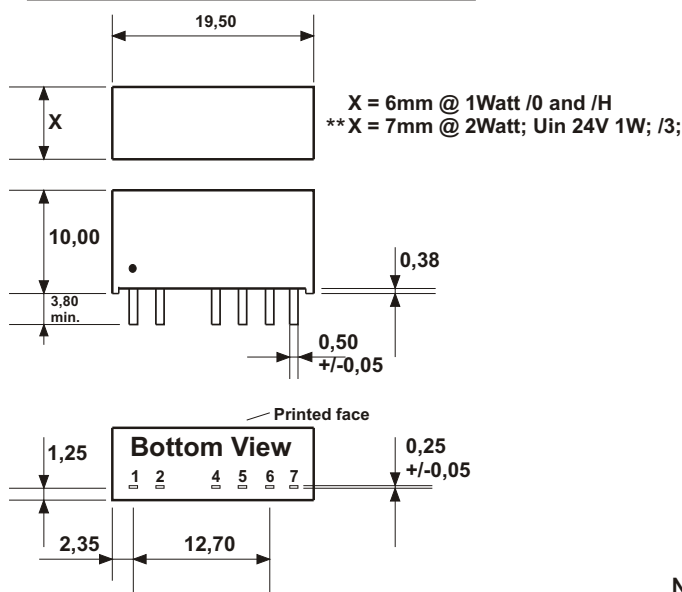
Note: NP = No pin; NC = No connection;

Dot denotes pin 1

Input capacitor 4,7 μ F - 10 μ F is a must.

All specifications typical @ T_a +25°C

Nom. Vin & full load, unless otherwise specified!



**Specification may be changed without notice
please contact office for verification**

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