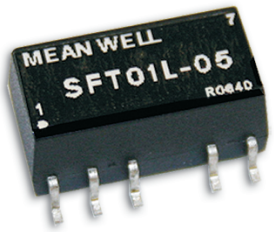
1W DC-DC Unregulated Single Output Converter

SFT01 series



■ Features :

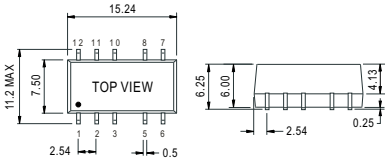
- 3000VDC I/O isolation
- Internal SMD technology
- Protection: Short circuit
- Non-conductive plastic case
- Cooling by free air convection
- SMD package styles
- 100% full load burn-in test
- Low cost / High reliability
- Approved: UL / CUL
- 1 year warranty

SPECIFICATION

ORDER NO.			SFT01L-05	SFT01M-05	SFT01L-09	SFT01M-09	SFT01L-12	SFT01M-12	SFT01L-15	SFT01M-15
OUTPUT	DC OUTPUT VOLTAGE		5V		9V		12V		15V	
	OUTPUT CURRENT RANGE		0 ~ 200mA		0 ~ 111mA		0 ~ 84mA		0 ~ 67mA	
	EFFICIENCY		70%	70%	75%	73%	78%	73%	79%	74%
	RATED POWER		1W							
	RIPPLE & NOISE (max.) Note.2		100mVp-p							
	LINE REGULATION Note.3		±1.2% for 1% input variation							
	LOAD REGULATION Note.4		±8.0%							
	VOLTAGE TOLERANCE		±8.0%							
	SWITCHING FREQUENCY(Typ.)		100KHz							
INPUT	VOLTAGE RANGE		4.5 ~ 5.5V	10.8 ~ 13.2V	4.5 ~ 5.5V	10.8 ~ 13.2V	4.5 ~ 5.5V	10.8 ~ 13.2V	4.5 ~ 5.5V	10.8 ~ 13.2V
	NORMAL VOLTAGE		5V	12V	5V	12V	5V	12V	5V	12V
	INPUT CURRENT	Full load	264mA	123mA	264mA	123mA	264mA	123mA	264mA	123mA
		No load	30mA	19mA	30mA	19mA	30mA	19mA	30mA	19mA
	PROTECTION		Fuse recommended							
PROTECTION	OVERLOAD		Momentary							
			Protection type : Broken							
	SHORT CIRCUIT		Momentary							
			Protection type : Broken							
ENVIRONMENT	WORKING TEMP.		-40 ~ +85℃ (Refer to output load derating curve)							
	WORKING HUMIDITY		20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY		-40 ~ +105℃, 10 ~ 95% RH							
	TEMP. COEFFICIENT		±0.03% / ℃ (0 ~ 50℃)							
	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS		UL60950-1, CSA C22.2							
	WITHSTAND VOLTAGE		I/P-O/P:3KVDC							
	ISOLATION RESISTANCE		I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH							
OTHERS	MTBF		500khrs min. MIL-HDBK-217F(25℃)							
	DIMENSION		15.24*7.5*6.0mm or 0.60"*0.30"*0.24" inch (L*W*H)							
	WEIGHT		1.7g							

■ Mechanical Specification

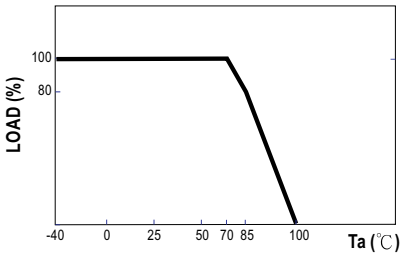
Unit: mm (inch)



■ Pin Configuration

Pin No.	Output
1	-Vin
2	+Vin
3	NC
5	-Vout
6	NC
7	NC
8	+Vout
10	NC
11	NC
12	NC

■ Derating Curve



NOTE	
	1.All parameters are specified at normal input, rated load, 25℃ 70% RH Ambient. 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor. 3.Line regulation is measured from low line to high line at rated load. 4.Load regulation is measured from 20% to 100% rated load.

File Name: SFT01-SPEC 2008-05-08

PEWATRON
a member of the Angst + Pfister Group

We are here for you. Addresses and Contacts

Sales Switzerland

Postcode 3000 – 9999
Liechtenstein

Matthias Rüegg
Ruhbergstrasse 32
CH-9230 Flawil

Phone + 41 44 877 35 18
Mobile + 41 76 491 66 66
Fax + 41 44 877 35 19

matthias.rueegg@pewatron.com

Postcode 1000 – 2999

Raffael Favaretto
Route d'Oron 124
CH-1673 Promasens

Phone + 41 44 877 35 22
Mobile + 41 76 444 63 14
Fax + 41 44 877 35 23

raffael.favaretto@pewatron.com

Sales Germany

Postcode 60000 – 79999

Dieter Hirthe
Mühlweg 23
D-71554 Weissach i.T.

Phone + 49 719 149 60 58
Mobile + 49 163 762 74 30
Fax + 49 719 193 31 88

dieter.hirthe@pewatron.com

Postcode 10000 – 59999
Postcode 80000 – 99999

Kurt Stritzelberger
Neumarkter Str. 86a
D-81673 Munich

Phone + 49 89 260 38 47
Mobile + 49 171 803 41 35
Fax + 49 89 43 10 91 91

kurt.stritzelberger@pewatron.com

Key Accounts
Aerospace and Defence

Claus Wübbena
Vogelkamp 26
D-26655 Westerstede

Phone + 49 4488 5204 614
Mobile + 49 173 9700 691
Fax + 49 4488 5204 616

claus.wuebbena@pewatron.com

Sales Austria

Kurt Stritzelberger
Neumarkter Str. 86a
D-81673 Munich

Phone + 49 89 260 38 47
Mobile + 49 17 18 03 41 35
Fax + 49 89 43 10 91 91

kurt.stritzelberger@pewatron.com

Sales Other Countries / Product Management

Sensors

Physical Sensors
Data Acquisition

Peter Felder
Phone + 41 44 877 35 05
peter.felder@pewatron.com

Geometrical Sensors

Eric Letsch
Phone + 41 44 877 35 14
eric.letsch@pewatron.com

Power Supplies

DC-DC Converters
Switching Power Supplies
DC-AC Inverters

Sebastiano Leggio
Phone + 41 44 877 35 06
sebastiano.leggio@pewatron.com

E-Components

Current Sensors
Man Machine Interface
Measurement Probes

Sebastiano Leggio
Phone + 41 44 877 35 06
sebastiano.leggio@pewatron.com

PEWATRON AG
Thurgauerstrasse 66
CH-8052 Zurich

Phone + 41 44 877 35 00
Fax + 41 44 877 35 25

www.pewatron.com
info@pewatron.com