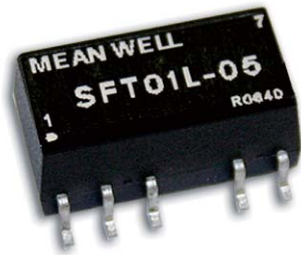


# SFT01 series



## 1W DC-DC Unregulated Single Output Converter



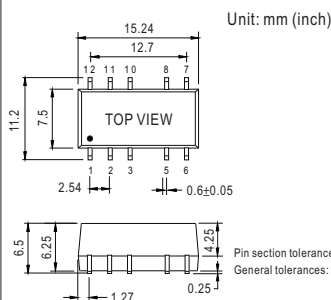
- Features :
  - 3000VDC I/O isolation
  - Internal SMD technology
  - Protection: Short circuit
  - Non-conductive plastic case
  - Cooling by free air convection
  - SMD package styles
  - 100% full load burn-in test
  - Low cost / High reliability
  - Approved: UL / CUL
  - 1 year warranty



### SPECIFICATION

MODEL NO.	F0505T-1W	F1205T-1W	F0509T-1W	F1209T-1W	F0512T-1W	F1212T-1W	F0515T-1W	F1215T-1W
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	
	OUTPUT CURRENT RANGE		0 ~ 200mA		0 ~ 111mA		0 ~ 84mA	
	EFFICIENCY		70%	70%	75%	73%	78%	73%
	RATED POWER		1W		1W		1W	
	RIPPLE & NOISE (max.) Note.2		100mVp-p		100mVp-p		100mVp-p	
	LINE REGULATION Note.3		±1.2% for 1% input variation		±1.2% for 1% input variation		±1.2% for 1% input variation	
	LOAD REGULATION Note.4		±8.0%		±8.0%		±8.0%	
	VOLTAGE TOLERANCE		±8.0%		±8.0%		±8.0%	
INPUT	SWITCHING FREQUENCY(Typ.)		100KHz		100KHz		100KHz	
	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
	NORMAL VOLTAGE		5V	12V	5V	12V	5V	12V
	INPUT CURRENT	Full load	264mA	123mA	264mA	123mA	264mA	123mA
		No load	30mA	19mA	30mA	19mA	30mA	19mA
PROTECTION		Fuse recommended		Fuse recommended		Fuse recommended		
PROTECTION	OVERLOAD		Momentary		Momentary		Momentary	
	SHORT CIRCUIT		Momentary		Momentary		Momentary	
ENVIRONMENT	WORKING TEMP.		-40 ~ +85°C (Refer to "Derating Curve")		-40 ~ +85°C (Refer to "Derating Curve")		-40 ~ +85°C (Refer to "Derating Curve")	
	WORKING HUMIDITY		20% ~ 90% RH non-condensing		20% ~ 90% RH non-condensing		20% ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY		-40 ~ +105°C, 10 ~ 95% RH		-40 ~ +105°C, 10 ~ 95% RH		-40 ~ +105°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT		±0.03% / °C (0 ~ 50°C)		±0.03% / °C (0 ~ 50°C)		±0.03% / °C (0 ~ 50°C)	
	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS		UL60950-1, CSA C22.2		UL60950-1, CSA C22.2		UL60950-1, CSA C22.2	
	WITHSTAND VOLTAGE		I/P-O/P: 3KVDC		I/P-O/P: 3KVDC		I/P-O/P: 3KVDC	
	ISOLATION RESISTANCE		I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH		I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH		I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH	
OTHERS	MTBF		500khrs min. MIL-HDBK-217F(25°C)		500khrs min. MIL-HDBK-217F(25°C)		500khrs min. MIL-HDBK-217F(25°C)	
	DIMENSION		15.24*7.5*6.5mm or 0.6**0.295**0.24" inch (L*W*H)		15.24*7.5*6.5mm or 0.6**0.295**0.24" inch (L*W*H)		15.24*7.5*6.5mm or 0.6**0.295**0.24" inch (L*W*H)	
	WEIGHT		1.7g		1.7g		1.7g	

#### Mechanical Specification

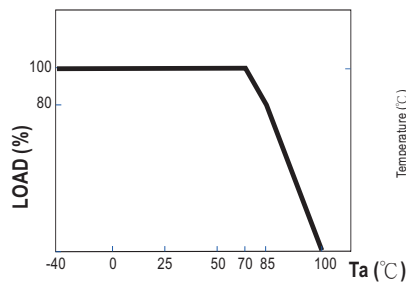


#### Pin Configuration

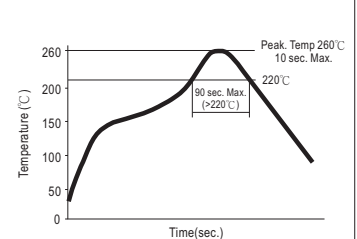
Pin No.	Output
1	-Vin
2	+Vin
3	NC
5	-Vout
6	NC
7	NC
8	+Vout
10	NC
11	NC
12	NC

NC : Please DO NOT connect to other pins.

#### Derating Curve



#### Reflow Soldering Curve



#### NOTE

- 1.All parameters are specified at normal input, rated load, 25°C 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 2015-12-23

Note: all features are subject to change without notice.