



Test Report : SFTN02L-12

2W SMD Package DC-DC Unregulated Converter

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

■ SAFETY TEST

Safety Test

■ RELIABILITY TEST

Environment Test

Other

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2.0 % ~ +2.0 %	I/P:5VDC O/P:FULL LOAD Ta:25°C	-0.46%	P
2	RIPPLE & NOISE	75 mVp-p	I/P:5VDC O/P:FULL LOAD Ta:25°C	20mV	P
3	LINE REGULATION	-12.0% ~ +12.0%	I/P:4.5VDC~5.5VDC O/P:FULL LOAD Ta:25°C	-11.75% ~ -11.42%	P
4	LOAD REGULATION	-8.0% ~ +8.0%	I/P:5VDC O/P:10% LOAD~FULL LOAD Ta:25°C	-4.34% ~ +3.82%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	EFFICIENCY	80% (Typ)	I/P:5VDC O/P:FULL LOAD Ta:25°C	80.05%	P
2	DC CURRENT	500 mA / FULL LOAD 50 mA / NO LOAD	I/P:5VDC O/P:NO / FULL LOAD Ta:25°C	497 mA / FULL LOAD 42 mA / NO LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	SHORT PROTECTION	< 0.5S Max	I/P:5.5VDC O/P:FULL LOAD Ta:25°C	OK	P

SAFETY TEST

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:3.0K VDC/min	I/P-O/P:3.0K VDC/min Ta:25°C	I/P-O/P: 0.002mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P:500 VDC Ta:25°C	I/P-O/P>100MΩ NO DAMAGE	P

■ RELIABILITY TEST

ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT												
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 8HRS I/P:5VDC O/P:FULL LOAD Ta=25°C 2. HIGH AMBIENT BURN-IN : 8HRS I/P:5VDC O/P:FULL LOAD Ta=85°C 3. HIGH AMBIENT BURN-IN : 8HRS I/P:5VDC O/P:75% LOAD Ta=90°C 4. HIGH AMBIENT BURN-IN : 8HRS I/P:5VDC O/P:50% LOAD Ta=97°C			P												
		<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CASE</td> <td>42.0°C</td> <td>102.0°C</td> <td>104.8°C</td> <td>109.5°C</td> </tr> </tbody> </table>				NO	Position	1	2	3	4	1	CASE	42.0°C	102.0°C	104.8°C	109.5°C
NO	Position	1	2	3	4												
1	CASE	42.0°C	102.0°C	104.8°C	109.5°C												
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 4 HOURS	I/P:5VDC O/P: FULL LOAD Ta= -40°C	TEST : OK	P												

OTHER

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	MTBF	MIL-HDBK-217F,GB,25°C TOTAL FAILURE RATE : 1.14693 M.T.B.F : 880K HRS			P

TEST RESULT	TESTER	APPROVAL
PASS	ARCHEN HSIAO	PETER CHENG