



Test Report : SCWN06B-05

5W DIP Package DC-DC Regulated 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	-1.5 % ~ +1.5 % (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	-0.20 %	P
2	RIPPLE & NOISE	50 mVp-p (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	15mV	P
3	LINE REGULATION	-0.5% ~ +0.5% (Max)	I/P:18VDC~36VDC O/P:FULL LOAD Ta:25°C	-0.00% ~ +0.01%	P
4	LOAD REGULATION	-0.5% ~ +0.5% (Max)	I/P:24VDC O/P:10% LOAD-FULL LOAD Ta:25°C	-0.15 % ~ +0.12 %	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	18 VDC ~36 VDC	I/P:TESTING O/P:FULL LOAD Ta:25°C	15.88VDC ~36.0 VDC	P
2	EFFICIENCY	82 % (Typ)	I/P:24VDC O/P:FULL LOAD Ta:25°C	82.83%	P
3	DC CURRENT	251 mA / FULL LOAD (Max) 5 mA / NO LOAD (Max)	I/P:24VDC O/P:NO / FULL LOAD Ta:25°C	248.8mA / FULL LOAD 2.9 mA / NO LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	SHORT PROTECTION	CONTINUOUS	I/P:36VDC O/P:FULL LOAD Ta:25°C	HICCUP MODE AUTO-RECOVER	P
2	OVER LOAD PROTECTION	120% ~250%	I/P:24VDC O/P:TESTING Ta:25°C	168.0% HICCUP MODE AUTO-RECOVER	P
3	Under Voltage Lockout	Power Up 17Vdc Power Down 16Vdc	I/P:24VDC O/P:NO LOAD Ta:25°C	Power Up 16.54Vdc Power Down 15.88Vdc	P

SAFETY TEST

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:3K VDC/min	I/P-O/P:3K VDC/min Ta:25°C	I/P-O/P: 0.002 mA 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:24VDC O/P:FULL LOAD Ta=25°C 2. HIGH AMBIENT BURN-IN : 8HRS I/P:24VDC O/P:FULL LOAD Ta=80°C	<table border="1" data-bbox="651 1055 1147 1149"> <thead> <tr> <th>NO</th> <th>Position</th> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CASE</td> <td>49.0°C</td> <td>101.1°C</td> </tr> </tbody> </table>	NO	Position	1	2	1	CASE	49.0°C	101.1°C		P
NO	Position	1	2										
1	CASE	49.0°C	101.1°C										
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOURS	I/P:24VDC 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 : 0.522 M.T.B.F : 1915470HRS			P

TEST RESULT	TESTER	APPROVAL
PASS	ARCHEN HSIAO	VINCENT ZENG