



# Test Report : SKMW06F-09

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6W 1"x1" Package DC-DC Regulated Converter

## ■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

## ■ SAFETY TEST

Safety Test

## ■ RELIABILITY TEST

Other

**DESIGN VERIFY TEST**
**OUTPUT FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-1.0% ~ +1.0 %	I/P:24VDC O/P:FULL LOAD Ta:25°C	+0.32%	P
2	RIPPLE & NOISE	85 mVp-p (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	40mV	P
3	LINE REGULATION	-0.2% ~ +0.2%	I/P:9VDC~36VDC O/P:FULL LOAD Ta:25°C	-0.03% ~ -0.03%	P
4	LOAD REGULATION	-1.0% ~ +1.0%	I/P:24VDC O/P:5% LOAD~FULL LOAD Ta:25°C	-0.03% ~ +0.01%	P

**INPUT FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	9 VDC ~36 VDC	I/P:TESTING O/P:FULL LOAD Ta:25°C	7.09 VDC ~ 36.0 VDC	P
2	EFFICIENCY	83% (Typ)	I/P:24VDC O/P:FULL LOAD Ta:25°C	84.21%	P
3	DC CURRENT	309 mA / FULL LOAD 7 mA / NO LOAD	I/P:24VDC O/P:NO / FULL LOAD Ta:25°C	297 mA / FULL LOAD 7.0 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	110% ~ 190%	I/P:24VDC O/P:TESTING Ta:25°C	174.2% HICCUP MODE AUTO-RECOVER	P

**SAFETY TEST**
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NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:1.5K VDC/min	I/P-O/P:1.5K 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

**OTHER**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	MTBF	MIL-HDBK-217F,GB,25°C TOTAL FAILURE RATE : 0.622928 M.T.B.F : 1605.322K HRS			P

TEST RESULT	TESTER	APPROVAL
PASS	ARCHEN HSIAO	PETER CHENG