



Test Report : SBTN01K-05

1W SMD Package DC-DC Unregulated Converter

■ DESIGN VERIFY TEST

Output Function Test

Input Function Test

Protection Function Test

■ SAFETY TEST

Safety Test

■ RELIABILITY TEST

Other test

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2%	I/P:3.3VDC O/P:FULL LOAD Ta:25°C	-1.73%	P
2	RIPPLE & NOISE	75mVp-p (Max)	I/P:3.3VDC O/P:FULL LOAD Ta:25°C	15mVp-p	P
3	LINE REGULATION	-12% ~ +12% (Max)	I/P:2.97.5VDC ~3.67VDC O/P:FULL LOAD Ta:25°C	-11.47% ~ +11.67%	P
4	LOAD REGULATION	-8% ~ +8% (Max)	I/P:3.3VDCC O/P:FULL ~MIN LOAD Ta:25°C	-3.97% ~ +3.67%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	EFFICIENCY	75%	I/P:3.3VDC O/P:FULL LOAD Ta:25°C	86.66%	P
2	DC CURRENT	404mA FULL LOAD 40mA NO LOAD	I/P:3.3VDC O/P:FULL LOAD Ta:25°C	339.1mA 6.9mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	SHORT PROTECTION	MOMENTARY	I/P:3.67VDC O/P:FULL LOAD Ta:25°C	MOMENTARY	P

SAFETY TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC/min	I/P-O/P:1.5KVDC/min Ta:25°C	I/P-O/P:0.02mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P:500VDC Ta:25°C	I/P-O/P:>100MΩ NO DAMAGE	P

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RELIABILITY TEST

OTHER

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	MTBF	MIL-KDBK-217F NOTICES 2 PARTS COUNT TOTAL FAILURE RATE : 1.13390 M.T.B.F : 881914.32 HRS			P

TEST RESULT	TESTER	APPROVAL
PASS	ARCHEN	VINCENT ZENG