



Test Report : SBTN01N-03

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	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-3%~+3%	I/P:24VDC O/P:FULL LOAD Ta:25°C	-2.59%	P
2	RIPPLE & NOISE	75mVp-p (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	14mVp-p	P
3	LINE REGULATION	-15% ~ +15% (Max)	I/P:21.6VDC ~26.4VDC O/P:FULL LOAD Ta:25°C	-11.54% ~ +11.45%	P
4	LOAD REGULATION	-8% ~ +8% (Max)	I/P:24VDCC O/P:FULL ~MIN LOAD Ta:25°C	-2.35 ~ +2.01%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	EFFICIENCY	75%	I/P:24VDC O/P:FULL LOAD Ta:25°C	82.07%	P
2	DC CURRENT	55mA FULL LOAD 11mA NO LOAD	I/P:24VDC O/P:FULL LOAD Ta:25°C	48.7mA 3.3mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	SHORT PROTECTION	MOMENTARY	I/P:26.4VDC O/P:FULL LOAD Ta:25°C	MOMENTARY	P

SAFETY TEST
SAFETY TEST

NO	TEST ITEM	SPECICATION	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

■ 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