



Test Report : MDS01M-15N

1W SIP Package DC-DC Medical Grade Unregulated Converter

■ DESIGN VERIFY TEST

Output Function Test
Input 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	-5%~+5%	I/P:12VDC O/P:FULL LOAD Ta:25°C	-1.05%	P
2	RIPPLE & NOISE	100 mVp-p	I/P:12VDC O/P:FULL LOAD Ta:25°C	26mV	P
3	LINE REGULATION	-12% ~ +12%	I/P:10.8VDC~13.2VDC O/P:FULL LOAD Ta:25°C	-10.79% ~ +10.82%	P
4	LOAD REGULATION	-10% ~ +10%	I/P:12VDC O/P:MINI LOAD~FULL LOAD Ta:25°C	-2.31% ~ +2.18%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	EFFICIENCY	83%	I/P:12VDC O/P:FULL LOAD Ta:25°C	83.27%	P
2	DC CURRENT	105 mA / FULL LOAD 15 mA / NO LOAD	I/P:12VDC O/P:NO / FULL LOAD Ta:25°C	97.7mA / FULL LOAD 10.5mA / NO LOAD	P

SAFETY TEST

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:6000 VDC/min	I/P-O/P:6000 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

OTHER

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	MTBF	MIL-HDBK-217F,GB,25°C,Full Load TOTAL FAILURE RATE : 0.0666 M.T.B.F : 15,000K HRS			P

TEST RESULT	TESTER	APPROVAL
PASS	ARCHEN HSIAO	PETER CHENG