



# Test Report : MDS02L-15N

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2W 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:5VDC O/P:FULL LOAD Ta:25°C	-1.51%	P
2	RIPPLE & NOISE	100 mVp-p	I/P:5VDC O/P:FULL LOAD Ta:25°C	35mV	P
3	LINE REGULATION	-12% ~ +12%	I/P:4.5VDC~5.5VDC O/P:FULL LOAD Ta:25°C	-10.89% ~ +10.36%	P
4	LOAD REGULATION	-10% ~ +10%	I/P:5VDC O/P:MINI LOAD~FULL LOAD Ta:25°C	-2.84% ~ +3.21%	P

### INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	EFFICIENCY	86%	I/P:5VDC O/P:FULL LOAD Ta:25°C	86.46%	P
2	DC CURRENT	460 mA / FULL LOAD 40 mA / NO LOAD	I/P:5VDC O/P:NO / FULL LOAD Ta:25°C	455.3mA / FULL LOAD 39.08mA / 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 : 0.775193 M.T.B.F : 12,900K HRS			P

TEST RESULT	TESTER	APPROVAL
PASS	ARCHEN HSIAO	PETER CHENG