

Model : SRS-0512 0.5W DC-DC Single Output Converter
 V1 : 12V / 0~42mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2% (Max)	I/P:5VDC O/P:50% LOAD Ta:25°C	+1.1%	P
2	RIPPLE & NOISE	100mVp-p (Max)	I/P:5VDC O/P:FULL LOAD Ta:25°C	10mV	P
3	LINE REGULATION	-1%~+1% (Max)	I/P:4.5VDC~5.5VDC O/P:FULL LOAD Ta:25°C	-0%~+0.2%	P
4	LOAD REGULATION	-1%~+1% (Max)	I/P:5VDC O/P:MIN~FULL LOAD Ta:25°C	-0.1%~+0%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	DC VOLTAGE RANGE	4.5VDC~5.5VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25°C	4.0V~5.5V	P
2	EFFICIENCY	62% (Typ)	I/P:5VDC O/P:FULL LOAD Ta:25°C	61.0%	P
3	DC CURRENT	166mA (Max)	I/P:5VDC O/P:FULL LOAD Ta:25°C	160mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	YES	I/P:5VDC O/P:TESTING Ta:25°C	238% Hiccup Mode Reset Auto Recovery	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:5VDC O/P:FULL LOAD Ta:25°C	NO DAMAGE Hiccup Mode Reset Auto Recovery	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 13HRS I/P:5VDC O/P:FULL LOAD Ta=25°C			P

Position	P/N	TEMP Ta=25°C
CASE	SRS-0512	36.9°C

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:1KVDC/min	I/P-O/P:1KVDC/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:30GΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2003.7.17	SRS-0512	PASS	FRANK.CHEN	MAX LIN