

Model : SRS-1205 0.5W DC-DC Single Output Converter
 V1 : 5V / 0~100mA

OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|------------------|----------------|---|---------|---------|
| 1 | VOLTAGE ACCURACY | -2%~+2% (Max) | I/P:12VDC O/P:50% LOAD Ta:25°C | +0.2% | P |
| 2 | RIPPLE & NOISE | 100mVp-p (Max) | I/P:12VDC O/P:FULL LOAD Ta:25°C | 13mV | P |
| 3 | LINE REGULATION | -1%~+1% (Max) | I/P:10.8VDC~13.2VDC O/P:FULL LOAD Ta:25°C | -0%~+0% | P |
| 4 | LOAD REGULATION | -1%~+1% (Max) | I/P:12VDC O/P:MIN~FULL LOAD Ta:25°C | -0%~+0% | P |

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|------------------|-----------------------|---|------------|---------|
| 1 | DC VOLTAGE RANGE | 10.8VDC~13.2VDC (Typ) | I/P:TESTING O/P:FULL LOAD Ta:25°C | 9.4V~13.2V | P |
| 2 | EFFICIENCY | 64% (Typ) | I/P:12VDC O/P:FULL LOAD Ta:25°C | 64.5% | P |
| 3 | DC CURRENT | 66mA (Max) | I/P:12VDC O/P:FULL LOAD Ta:25°C | 64mA | P |

PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|----------------------|--|---------------------------------------|---|---------|
| 1 | OVER LOAD PROTECTION | YES | I/P:12VDC O/P:TESTING Ta:25°C | 334% Hiccup Mode Reset Auto Recovery | P |
| 2 | SHORT PROTECTION | SHORT EVERY OUTPUT 1 HOUR NO DAMAGE | I/P:12VDC 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 : 20HRS I/P:12VDC O/P:FULL LOAD Ta=25°C | | | P | |
| | | | Position | P/N | | TEMP Ta=25°C |
| | | | CASE | SRS-1205 | | 38.9°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-1205 | PASS | FRANK.CHEN | MAX LIN |