

Model : SPA02E-12 1.8W  
 12V / 15~150mA

**OUTPUT FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2%	I/P:5VDC O/P:FULL LOAD Ta:25°C	0.29%	P
2	RIPPLE & NOISE	60mVp-p	I/P:5VDC O/P:FULL LOAD Ta:25°C	28mV	P
3	LINE REGULATION	-0.5%~+0.5%	I/P:4.5VDC~9.0VDC O/P:FULL LOAD Ta:25°C	-0.01%~+0.01%	P
4	LOAD REGULATION	-0.5%~+0.5%	I/P:5VDC O/P:MIN ~FULL LOAD Ta:25°C	-0.04%~+0.04%	P

**INPUT FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	4.5VDC~9VDC	I/P:TESTING O/P:FULL LOAD Ta:25°C	2.4V~9Vdc	P
2	EFFICIENCY	74% (Typ)	I/P:5VDC O/P:FULL LOAD Ta:25°C	78.69%	P
3	DC CURRENT	50 mA / NO LOAD 600 mA / FULL LOAD	I/P:5VDC O/P:NO / FULL LOAD Ta:25°C	33.0 mA / NO LOAD 459 mA / FULL LOAD	P

**PROTECTION FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	150% ~ 250% (Typ)	I/P:5VDC O/P:TESTING Ta:25°C	208% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	YES	I/P:9VDC O/P:SHORT Ta:25°C	NO DAMAGE HICCUP MODE AUTO-RECOVER	P

**CONTROL FUNCTION TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	REMOTE CONTROL	POWER ON : R.C ~ Vin < 1VDC OR OPEN POWER OFF : R.C ~ Vin > 4VDC OR SHORT	I/P:5VDC O/P:FULL LOAD Ta:25°C	POWER ON : 1.1VDC OR OPEN POWER OFF : 2.8VDC OR SHORT	P

**ENVIRONMENT TEST**

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT							
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 3HRS I/P:5VDC O/P:FULL LOAD Ta=30.1°C			P							
		<table border="1"> <thead> <tr> <th>Position</th> <th>CENTER</th> <th>1</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>SPA02E-12</td> <td>48.8°C</td> </tr> </tbody> </table>			Position	CENTER	1	CASE	SPA02E-12	48.8°C		
Position	CENTER	1										
CASE	SPA02E-12	48.8°C										
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 3 HOURS	I/P:5VDC O/P: 100% LOAD Ta= -40°C	TEST : OK	P							

**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:>100MΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2007.7.31	PRODUCT SAMPLE	PASS	PETER	T.K.CHENG