

Model : SPA02E-15 1.8W
 15V / 12~120mA

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	-0.6%	P
2	RIPPLE & NOISE	60mVp-p	I/P:5VDC O/P:FULL LOAD Ta:25°C	20mV	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	-0.03%~+0.02%	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	76% (Typ)	I/P:5VDC O/P:FULL LOAD Ta:25°C	79.65%	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 449 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	204% 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 : 0.9VDC OR OPEN POWER OFF : 2.4VDC 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"> <tr> <td>Position</td> <td>CENTER</td> <td>1</td> </tr> <tr> <td>CASE</td> <td>SPA02E-15</td> <td>47.7°C</td> </tr> </table>		Position	CENTER	1	CASE	SPA02E-15	47.7°C		
Position	CENTER	1									
CASE	SPA02E-15	47.7°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

REMOTE CONTROL 不同負載狀況下的控制電壓對照表

5VDC	POWER ON	POWER OFF
0% LOAD	<2.4Vdc	>3.8Vdc
10% LOAD	<2.3Vdc	>3.8Vdc
50% LOAD	<1.4Vdc	>2.9Vdc
100% LOAD	<0.9Vdc	>2.4Vdc