

Quality Engineering Test Report

SERIES: SCW03A

3W DC-DC SINGLE OUTPUT CONVERTER

SAMPLE: **A:SCW03A-05** **+5V / 600mA**
 B:SCW03A-12 **+12V/250mA**
 C:SCW03A-15 **+15V/200mA**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P : TESTING SPEC : 9~18VDC O/P : FULL LOAD	A:5.7~18VDC	P
2	LINE REGULATION	I/P : 9~18VDC SPEC : 0.5% MAX O/P : FULL LOAD	A:-0%~+0.1% B:-0%~+0.1% C:-0%~+0%	P
3	LOAD REGULATION	I/P : 12VDC SPEC : ±1% O/P : MIN. TO FULL LOAD	A:-0.2%~+0% B:-0%~+0.1% C:-0.04%~+0.06%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P : 9~18VDC SPEC : NONE O/P : MIN. TO FULL LOAD	A:-0.2%~+0.1% B:-0.1%~+0.1% C:-0.04%~+0.06%	P
5	RIPPLE & NOISE	I/P : 12VDC SPEC : 100mV O/P : FULL LOAD	A:30mV B:20mV C:10mV	P
6	DC INPUT CURRENT	I/P : 12VDC SPEC : NONE O/P : FULL LOAD	A:0.32A	P
7	OVER LOAD PROTECTION	I/P : 12VDC SPEC : NONE O/P : TESTING	A:166% B:188% C:200%	P
8	O/P VOLTAGE ACCURACY	I/P : 12VDC SPEC : ±2% O/P : MIN. LOAD	A:+0.40% B:+0.17% C:+0%	P
9	SET UP TIME	I/P : 12VDC SPEC : NONE O/P : FULL LOAD	A:2.04mS	P
10	HOLD UP TIME	I/P : 12VDC SPEC : NONE O/P : FULL LOAD	A:0.2mS	P
11	EFFICIENCY	I/P : 12VDC SPEC : 73% O/P : FULL LOAD	A:78.4% B:80.7% C:83.3%	P
12	INSULATION RESISTANCE	SPEC : I/P – O/P 500VDC/100MΩ MIN.	A:I/P – O/P > 100M Ω	P
13	DIELECTRIC / WITHSTAND VOLTAGE	SPEC : I/P – O/P : 1000VDC/ 1 min (10mA CUT-OFF)	A:NO BREAK I/P – O/P : < 0.02mA	P
14	BURN-IN TEST	I/P:12VDC O/P:FULL LOAD TA:25 °C BURN-IN DURATION : 4 hrs	A:NO BREAK B:NO BREAK C:NO BREAK	P

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
15	TEMPERATURE RISE TEST ΔT OF PARTS	A:I/P : 12VDC AFTER 4 hrs BURN-IN O/P : FULL LOAD TA : 25 °C <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>POSITION</th> <th>SAMPLE</th> <th>TEMP</th> <th>ΔT</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>SCW03A-05</td> <td>37.0 °C</td> <td>12.0 °C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	ΔT	CASE	SCW03A-05	37.0 °C	12.0 °C		P
POSITION	SAMPLE	TEMP	ΔT									
CASE	SCW03A-05	37.0 °C	12.0 °C									
16	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 軌道型塑膠加紙盒包裝 2. MARKING : MODEL 3. MECHANICAL : SIX-SIDED SHIELD METAL CASE 4. DIMENSIONS : WXHxD=31.8X12.2X20.3mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
1998.08.15	SCW03A-05	PASS	鄭讚國	MAX LIN								
1999.01.28	SCW03A-12 SCW03A-15	PASS	鄭讚國	MAX LIN								