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# Quality Engineering Test Report

**SERIES: SLW05A 5W DC-DC SINGLE OUTPUT CONVERTER**

**SAMPLE: A:SLW05A-05 +5V / 1000mA**  
**B:SLW05A-09 +9V / 556mA**  
**C:SLW05A-12 +12V / 417mA**  
**D:SLW05A-15 +15V / 333mA**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 9~18VDC O/P:FULL LOAD	A:5.8~18VDC	P
2	LINE REGULATION	I/P: 9~18VDC SPEC: $\pm 0.2\%$ O/P: FULL LOAD	A:-0%~+0% B:-0%~+0% C:-0%~+0% D:-0%~+0%	P
3	LOAD REGULATION	I/P: 12VDC SPEC: $\pm 1\%$ O/P:MIN. TO FULL LOAD	A:-0.2%~+0% B:-0.1%~+0% C:-0.1%~+0% D:-0.1%~+0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P: 9~18VDC SPEC: NONE O/P:MIN. TO FULL LOAD	A:-0.2%~+0% B:-0.1%~+0% C:-0.1%~+0% D:-0.1%~+0%	P
5	RIPPLE&NOISE	I/P: 12VDC SPEC: 100mV O/P:FULL LOAD	A:20mV B:20mV C:10mV D:10mV	P
6	DC INPUT CURRENT	I/P: 12VDC SPEC: NONE O/P:FULL LOAD	A:0.54A	P
7	OVER LOAD PROTECTION	I/P: 12VDC SPEC: NONE O/P:TESTING	A:179% B:183% C:195% D:212%	P
8	O/P VOLTAGE ACCURACY	I/P: 12VDC SPEC: $\pm 2\%$ O/P:MIN. LOAD	A:+0.4% B:+1.1% C:+1.1% D:+0.4%	P
9	SET UP TIME	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:1.8mS	P
10	HOLD UP TIME	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:0.23mS	P
11	EFFICIENCY	I/P: 12VDC SPEC: 73% O/P:FULL LOAD	A:77.1% B:79.5% C:79.4% D:80.7%	P
12	INSULATION RESISTANCE	SPEC:I/P-O/P 500VDC/100M Ohms MIN.	A:I/P-O/P>100M Ohms	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

**NEXT**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
14	BURN-IN TEST	I/P:12VDC TA:25°C O/P:FULL LOAD BURN-IN DURATION : 4 hrs	A:NO BREAK	P								
15	TEMPERATURE RISE TEST T rise OF PARTS	A:I/P :12VDC O/P :FULL LOAD AFTER 4 hrs BURN-IN TA:25 °C <table border="1"> <thead> <tr> <th>POSITION</th> <th>SAMPLE</th> <th>TEMP</th> <th>T rise</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>SLW05A-05</td> <td>44.2°C</td> <td>19.2°C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	T rise	CASE	SLW05A-05	44.2°C	19.2°C		P
POSITION	SAMPLE	TEMP	T rise									
CASE	SLW05A-05	44.2°C	19.2°C									
16	CONSTRUCTION INSPECTION ( FOR QC INSPECTION REFERENCE ONLY )	A: 1. PACKING : 泡棉加紙盒包裝 2. MARKING : MODEL 3. MECHANICAL : FIVE-SIDED SHIELD METAL CASE 4. DIMENSIONS : WXHXD=31.8X12.2X20.3mm, PIN :1.0 $\phi$ x8.3mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
1998.08.15	SLW05A-05	PASS	T.K.CHENG	MAX LIN								
1998.11.26	SLW05A-09 SLW05A-12 SLW05A-15	PASS	T.K.CHENG	MAX LIN								

[PREVIOUS](#)