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Quality Engineering Test Report

SERIES: SKE10A 10W DC-DC SINGLE OUTPUT CONVERTER

SAMPLE: A.SKE10A-05 +5V / 2000mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 9~18VDC O/P:FULL LOAD	A:8.4~18VDC	P								
2	LINE REGULATION	I/P:9~18VDC SPEC: $\pm 0.3\%$ O/P:FULL LOAD	A:-0.01%~+0%	P								
3	LOAD REGULATION	I/P:12VDC SPEC: $\pm 1\%$ O/P:MIN. TO FULL LOAD	A:-0.01%~+0.02%	P								
4	OUTPUT VOLTAGE TOLERANCE	I/P:9~18VDC SPEC: NONE O/P:MIN. TO FULL LOAD	A:-0.02%~+0.02%	P								
5	RIPPLE&NOISE	I/P:12VDC SPEC: 50mV O/P:FULL LOAD	A:15mV	P								
6	DC INPUT CURRENT	I/P:12VDC SPEC: 1.1A O/P:FULL LOAD	A:1058mA	P								
7	O/P VOLTAGE ACCURACY	I/P:12VDC SPEC: $\pm 2\%$ O/P:MIN. LOAD	A:+0.02%	P								
8	SET UP TIME	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:1.0mS	P								
9	EFFICIENCY	I/P:12VDC SPEC: 81% TYP O/P:FULL LOAD	A:79.0%	P								
10	OVER LOAD PROTECTION	I/P:12VDC SPEC: 160~250% O/P:TESTING	A:172%	P								
11	INSULATION RESISTANCE	SPEC:I/P-O/P 500VDC/1000M Ohms MIN.	A:I/P-O/P > 1000M Ohms	P								
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P-O/P: 500VDC/ 1 min (10mA CUT-OFF)	A:NO BREAK I/P-O/P <:0.02mA	P								
13	BURN-IN TEST	I/P:12VDC O/P:FULL LOAD TA:25 °C BURN-IN DURATION : 96 hrs	A:NO BREAK	P								
14	TEMPERATURE RISE TEST T rise OF PARTS	A:I/P :12VDC AFTER 96 hrs BURN-IN O/P :FULL LOAD TA:25 °C	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">POSITION</th> <th style="width: 25%;">SAMPLE</th> <th style="width: 25%;">TEMP</th> <th style="width: 25%;">T rise</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">CASE</td> <td style="text-align: center;">SKE10A-05</td> <td style="text-align: center;">54.0°C</td> <td style="text-align: center;">29.0°C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	T rise	CASE	SKE10A-05	54.0°C	29.0°C	P
POSITION	SAMPLE	TEMP	T rise									
CASE	SKE10A-05	54.0°C	29.0°C									
15	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 塑膠軌道型包裝 2. MARKING : MODEL LABELx1 3. MECHANICAL : SIX-SIDE SHIELDED CASE, PIN :1.0 Øx7mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
2000.12.14	SKE-10A-05	PASS	T.K.CHENG	MAX LIN								

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 TA:25 °C 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>SKE10A-05</td> <td>68.4°C</td> <td>43.4°C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	T rise	CASE	SKE10A-05	68.4°C	43.4°C	P
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CASE	SKE10A-05	68.4°C	43.4°C									
16	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 以塑膠泡墊保護PIN腳,再以紙盒包裝 2. MARKING : MODEL LABELx1 3. MECHANICAL : SIX-SIDED SHIELD METAL CASE, PIN :1.0 Øx7mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
1997.11.08	SKE-10A-05	PASS	T.K.CHENG	MAX LIN								
1999.01.27	SKE-10A-12 SKE-10A-15 SKE-10A-24	PASS	T.K.CHENG	MAX LIN								

[PREVIOUS](#)