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# Quality Engineering Test Report

**SERIES: DKE10C 10W DC-DC DUAL OUTPUT CONVERTER**

<b>SAMPLE:</b>	<b>A:</b>	<b>DKE10C-05</b>	<b>V1: +5V / 1A</b> <b>V2: -5V / 1A</b>
	<b>B:</b>	<b>DKE10C-12</b>	<b>V1:+12V / 0.625A</b> <b>V2:-12V / 0.625A</b>
	<b>C:</b>	<b>DKE10C-15</b>	<b>V1:+15V / 0.5A</b> <b>V2:-15V / 0.5A</b>

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING      SPEC: 36~72VDC O/P:FULL LOAD	A:29~72VDC	P
2	LINE REGULATION	I/P:36~72VDC      SPEC: $\pm 0.3\%$ O/P:FULL LOAD	A: V1: -0% ~ +0.2% V2: -0.1% ~ +0% B: V1: -0% ~ +0% V2: -0.1% ~ +0% C: V1: -0% ~ +0.2% V2: -0.2% ~ +0.3%	P
3	LOAD REGULATION	I/P:48VDC      SPEC: $\pm 2\%$ O/P:MIN. TO FULL LOAD	A: V1: -0% ~ +0% V2: -0.4% ~ +0.2% B: V1: -0% ~ +0% V2: -0.1% ~ +0.1% C: V1: -0.1% ~ +0.1% V2: -0.1% ~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P:36~72VDC      SPEC: NONE O/P:MIN. TO FULL LOAD	A: V1: -2.4% ~ +2.8% V2: -2.8% ~ +2.8% B: V1: -1.4% ~ +1.3% V2: -1.4% ~ +1.3% C: V1: -1.3% ~ +1.6% V2: -1.6% ~ +1.4%	P
5	RIPPLE&NOISE	I/P:48VDC      SPEC: A:50mV O/P:FULL LOAD      B:60mV C:60mV	A: V1: 25mV V2: 23mV B: V1: 15mV V2: 13mV C: V1: 13mV V2: 10mV	P
6	DC INPUT CURRENT	I/P:48VDC      SPEC: NONE O/P:FULL LOAD	A:0.25A	P
7	O/P VOLTAGE ACCURACY	I/P:48VDC      SPEC: $\pm 2\%$ O/P:MIN. LOAD	A: V1: +5.09V V2: -5.09V B: V1: +12.09V V2: -12.08V C: V1: +15.09V V2: -15.12V	P
8	SET UP TIME	I/P:48VDC      SPEC: NONE O/P:FULL LOAD	A:120.0mS	P
9	EFFICIENCY	I/P:48VDC      SPEC: 76% O/P:FULL LOAD	A: 84.7% B: 85.1% C: 86.5%	P
10	OVER LOAD PROTECTION	I/P:48VDC      SPEC: NONE O/P:TESTING	A: 160% B: 168% C: 164%	P
11	INSULATION RESISTANCE	SPEC: I/P-O/P: 500VDC/100M Ohms MIN.	A: I/P-O/P >100M Ohms	P

**NEXT**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT							
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P-O/P: 500VDC/ 1 min (10mA CUT-OFF)	A: I/P-O/P:<0.05mA	P							
13	BURN-IN TEST	I/P:48VDC O/P:FULL LOAD TA:23°C BURN-IN DURATION : 4 hrs	A: NO BREAK B: NO BREAK C: NO BREAK	P							
14	TEMPERATURE RISE TEST T rise OF PARTS	A: I/P :48VDC AFTER 4 hrs BURN-IN O/P :FULL LOAD TA:23°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>DKE10C-05</td> <td>45.5°C</td> <td>22.3°C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	T rise	CASE	DKE10C-05	45.5°C	22.3°C	P
POSITION	SAMPLE	TEMP	T rise								
CASE	DKE10C-05	45.5°C	22.3°C								
15	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 : MODULAR TYPE, PIN :1.0Øx7mm									
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL							
1999.1.27	DKE10C-05 DKE10C-12 DKE10C-15	PASS	T.K.CHENG	MAX LIN							

**PREVIOUS**