

Quality Engineering Test Report

SERIES: DKE15A 15W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:	A: DKE15A-05	V1: +5V / 150~1500mA	V2: -5V / 150~1500mA
	B: DKE15A-12	V1:+12V / 62.5~625mA	V2:-12V / 62.5~625mA
	C: DKE15A-15	V1:+15V / 50~500mA	V2:-15V / 50~500mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P : TESTING SPEC : 9~18VDC O/P : FULL LOAD	B:8.1~18VDC	P
2	LINE REGULATION	I/P : 9~18VDC SPEC : $\pm 0.3\%$ O/P : FULL LOAD	A: V1: -0% ~ +0% V2: -0% ~ +0% B: V1: 0.1% ~ 0.1% V2: -0.1% ~ 0% C: V1: -0% ~ +0% V2: -0% ~ +0%	P
3	LOAD REGULATION	I/P : 12VDC SPEC : $\pm 0.5\%$ O/P : MIN. TO FULL LOAD	A: V1: -0.1% ~ +0.1% V2: -0% ~ +0.1% B: V1: -0.1% ~ +0% V2: -0% ~ +0.1% C: V1: -0% ~ +0% V2: -0.1% ~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P : 9~18VDC SPEC : NONE O/P : MIN. TO FULL LOAD	A: V1: -2.4% ~ +2.7% V2: -2.6% ~ +2.6% B: V1: -1.8% ~ +1.6% V2: -1.8% ~ +1.7% C: V1: -1.5% ~ +1.3% V2: -1.4% ~ +1.4%	P
5	RIPPLE & NOISE	I/P : 12VDC SPEC : A:50mV O/P : FULL LOAD B:60mV C:60mV	A: V1: 30mV V2: 40mV B: V1: 20mV V2: 20mV C: V1: 15mV V2: 13mV	P
6	DC INPUT CURRENT	I/P : 12VDC SPEC : 1.7A O/P : FULL LOAD	B:1.54A	P
7	O/P VOLTAGE ACCURACY	I/P : 12VDC SPEC : $\pm 2\%$ O/P : MIN. LOAD	A: V1: -0.4% V2: -0.3% B: V1: +0.4% V2: +0.3% C: V1: -0.6% V2: -0.4%	P
8	EFFICIENCY	I/P : 12VDC SPEC : A:81% TYPICAL O/P : FULL LOAD B:82% TYPICAL C:82% TYPICAL	A: 79.8% B: 81.1% C: 81.3%	P
9	OVER LOAD PROTECTION	I/P : 12VDC SPEC : 160~250% O/P : TESTING AUTO RECOVERY	A: 180% B: 175% C: 184%	P
10	INSULATION RESISTANCE	SPEC : I/P - O/P : 500VDC/100M Ohms MIN.	B: I/P - O/P > 100M Ohms	P

NEXT

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT																
11	DIELECTRIC / WITHSTAND VOLTAGE	SPEC : I/P - O/P : 1000VDC/ 1 min (10mA CUT-OFF)	B: I/P - O/P : < 0.02mA	P																
12	BURN-IN TEST	I/P:12VDC TA:22 °C O/P:FULL LOAD BURN-IN DURATION : 4 hrs	A: NO BREAK B: NO BREAK C: NO BREAK	P																
13	TEMPERATURE RISE TEST Trise OF PARTS	<p style="text-align: center;">I/P : 12VDC AFTER 4 hrs BURN-IN O/P : FULL LOAD TA : 22.0 °C</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>POSITION</th> <th>SAMPLE</th> <th>TEMP</th> <th>Trise</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>DKE15A-05</td> <td>44.0°C</td> <td>22.0°C</td> </tr> <tr> <td>CASE</td> <td>DKE15A-12</td> <td>45.0°C</td> <td>23.0°C</td> </tr> <tr> <td>CASE</td> <td>DKE15A-15</td> <td>42.6°C</td> <td>20.6°C</td> </tr> </tbody> </table>		POSITION	SAMPLE	TEMP	Trise	CASE	DKE15A-05	44.0°C	22.0°C	CASE	DKE15A-12	45.0°C	23.0°C	CASE	DKE15A-15	42.6°C	20.6°C	P
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14	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 軌道型塑膠包裝 2. MARKING : MODEL LABELx1 3. MECHANICAL : SIX-SIDE SHIELDED CASE, PIN :1.0Φx8.3mm 4. DIMENSION : 2" * 2" * 0.43"																		
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL																
2002.9.17	DKE15A-05 DKE15A-12 DKE15A-15	PASS	T.K.CHENG	MAX LIN																

[PREVIOUS](#)