

Quality Engineering Test Report

SERIES: DKE15C 15W DC-DC DUAL OUTPUT CONVERTER

SAMPLE: A:DKE15C-05 V1: +5V / 150~1500mA
B:DKE15C-12 V2: -5V / 150~1500mA
V1:+12V / 62.5~625mA
V2:-12V / 62.5~625mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P : TESTING SPEC : 36~72VDC O/P : FULL LOAD	B: 26.8~72VDC	P
2	LINE REGULATION	I/P : 36 ~ 72VDC SPEC : $\pm 0.3\%$ O/P : FULL LOAD	A: V1: -0% ~ +0% V2: -0% ~ +0% B: V1: -0.1% ~ +0% V2: -0% ~ +0%	P
3	LOAD REGULATION	I/P : 48VDC SPEC : $\pm 0.5\%$ O/P : MIN. TO FULL LOAD	A: V1: -0% ~ +0% V2: -0.2% ~ +0% B: V1: -0.1% ~ +0% V2: -0.1% ~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P : 36 ~ 72VDC SPEC : NONE O/P : MIN. TO FULL LOAD	A: V1: -2.0% ~ +2.0% V2: -1.8% ~ +2.2% B: V1: -1.5% ~ +1.5% V2: -1.4% ~ +1.5%	P
5	RIPPLE & NOISE	I/P : 48VDC SPEC : A:50mV O/P : FULL LOAD B:60mV	A: V1: 18mV V2: 25mV B: V1: 23mV V2: 28mV	P
6	DC INPUT CURRENT	I/P : 48VDC SPEC : 0.4A O/P : FULL LOAD	B:0.37A	P
7	O/P VOLTAGE ACCURACY	I/P : 48VDC SPEC : $\pm 2\%$ O/P : MIN. LOAD	A: V1: +0.2% V2: -0.2% B: V1: -0.4% V2: -0.2%	P
8	EFFICIENCY	I/P : 48VDC SPEC : A:79% TYPICAL O/P : FULL LOAD B:82% TYPICAL	A: 84.0% B: 84.9%	P
9	OVER LOAD PROTECTION	I/P : 48VDC SPEC : 160~250% O/P : TESTING	A: 164% B: 170%	P
10	INSULATION RESISTANCE	SPEC : I/P - O/P : 500VDC/100M Ohms MIN.	B: I/P - O/P > 100M Ohms	P
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:48VDC O/P:FULL LOAD TA:27 °C BURN-IN DURATION : 15 hrs	A: NO BREAK B: NO BREAK	P

NEXT

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
13	TEMPERATURE RISE TEST Trise OF PARTS	B:I/P : 48VDC AFTER 15 hrs BURN-IN O/P : FULL LOAD TA : 27.0 °C <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>DKE15C-12</td> <td>46.1°C</td> <td>19.1°C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	Trise	CASE	DKE15C-12	46.1°C	19.1°C		P
POSITION	SAMPLE	TEMP	Trise									
CASE	DKE15C-12	46.1°C	19.1°C									
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 OUTPUT:1.0φx8.3mm 4. DIMENSION : 2" * 2" * 0.43"										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
2002.9.17	DKE15C-05 DKE15C-12	PASS	T.K.CHENG	MAX LIN								

[PREVIOUS](#)