

Quality Engineering Test Report

SERIES: DLW05A 5W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:	A.DLW05A-05	V1:+5V / 500mA
		V2: -5V / 500mA
	B.DLW05A-12	V1:+12V / 208mA
		V2: -12V / 208mA
	C.DLW05A-15	V1:+15V / 167mA
		V2: -15V / 167mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 9~18VDC O/P:FULL LOAD	A:6~18VDC	P
2	LINE REGULATION	I/P: 9~18VDC SPEC: 0.2% O/P: FULL LOAD	A:V1: -0.2%~+0% V2: -0.2%~+0% B:V1: -0%~+0.1% V2: -0%~+0.1% C:V1: -0%~+0.1% V2: -0%~+0.1%	P
3	LOAD REGULATION	I/P: 12VDC SPEC: ±2% O/P:MIN. TO FULL LOAD	A:V1: -0%~+0% V2: -0%~+0% B:V1: -0%~+0.1% V2: -0%~+0.1% C:V1: -0%~+0.1% V2: -0%~+0.1%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P: 9~18VDC SPEC: NONE O/P:MIN. TO FULL LOAD	A:V1: -4.0%~+3.0% V2: -3.8%~+4.0% B:V1: -1.2%~+1.2% V2: -1.2%~+1.3% C:V1: -1.0%~+1.0% V2: -1.1%~+1.0%	P
5	RIPPLE & NOISE	I/P: 12VDC SPEC: 100mV O/P:FULL LOAD	A: V1:18mV V2:12mV B: V1:10mV V2:10mV C: V1:10mV V2:10mV	P
6	DC INPUT CURRENT	I/P: 12VDC SPEC: NONE O/P:FULL LOAD	A:0.57A	P
7	OVER LOAD PROTECTION	I/P: 12VDC SPEC: NONE O/P:TESTING	A:174% B:200% C:212%	P
8	O/P VOLTAGE ACCURACY	I/P: 12VDC SPEC: ±2% O/P:MIN. LOAD	A: V1:+0% V2:-0.2% B: V1:+0.5% V2:+0.4% C: V1:-0.6% V2:-0.6%	P

NEXT

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
9	SET UP TIME	I/P:12VDC O/P:FULL LOAD SPEC: NONE	A:9.8mS	P								
10	EFFICIENCY	I/P: 12VDC O/P:FULL LOAD SPEC: 73%	A:73.0% B:78.7% C:81.2%	P								
11	INSULATION RESISTANCE	SPEC:I/P--O/P 500VDC/1000M Ohms MIN.	A:I/P--O/P >100M Ohms	P								
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P-- O/P: 1000VDC/ 1 min (10mA CUT-OFF)	A:NO BREAK I/P--O/P: :<0.02mA	P								
13	BURN-IN TEST	I/P:12VDC TA:25 °C O/P:FULL LOAD BURN-IN DURATION : 2 hrs	A:NO BREAK B:NO BREAK C:NO BREAK	P								
14	TEMPERATURE RISE TEST Trise OF PARTS	A:I/P :12VDC O/P :FULL LOAD TA:25 °C AFTER 4 hrs BURN-IN	<table border="1"> <thead> <tr> <th>POSITION</th> <th>SAMPLE</th> <th>TEMP</th> <th>Trise</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>DLW05A-05</td> <td>42.7°C</td> <td>17.7°C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	Trise	CASE	DLW05A-05	42.7°C	17.7°C	P
POSITION	SAMPLE	TEMP	Trise									
CASE	DLW05A-05	42.7°C	17.7°C									
15	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	A: 1. PACKING : 上下夾泡棉外加紙盒包裝 2. MARKING : MODEL 3. MECHANICAL : SIX-SIDED SHIELD METAL CASE 4. DIMENSIONS : WXHXD=50.8X11.27X25.4mm										
	DATE	SAMPLE	TEST RESULT	TEST	APPROVAL							
	1998.12.04	DLW05A-05 DLW05A-12 DLW05A-15	PASS	T.K.CHENG	MAX LIN							

[PREVIOUS](#)