



VER 1.42  
\*2 ADD D3,R34,D13

VER 1.03  
\*1 4 PARTS ARE MOUNTED ON HEAT SINK.

VSF 1.25mm2 R<14.7mohm/m  
PCB PATT. 12.4mohm @T=35um W=4 L=100

MONITORING SENSITIVITY  
A: 0.0-1.00A/7.6-494mV  
uA: 2-10u-2m/1.0-5.3-1116mV

PWM OUTPUT RIPPLE FILTER  
PWM freq=64MHz/65536=976Hz  
C=1uF ALL / R=10Kohm ALL

CURRENT TOTAL  
Opamp 10\*2=20mA  
DPM 30\*2=60mA  
LED 5\*4=20mA  
PhRelay 10\*1=10mA  
CPU 10\*1=10mA  
-5V/+5V line total=120mA

MAIN, SUB PCB FR-4, DOUBLE SIDED T=1.6  
CASE: IDEAL UB-11 110 \* 110 \* 230  
Designed by M.Tanaami  
**LOCKCHECKER.COM**  
Sheet: /  
File: DCP1203D\_1.44.kicad\_sch  
**Title: DCP1203D DC Power Supply 12V 3A**  
Size: A3 Date: 2025-05-11 Rev: 1.44  
Kicad E.D.A. 9.0.1 Id: 1/1