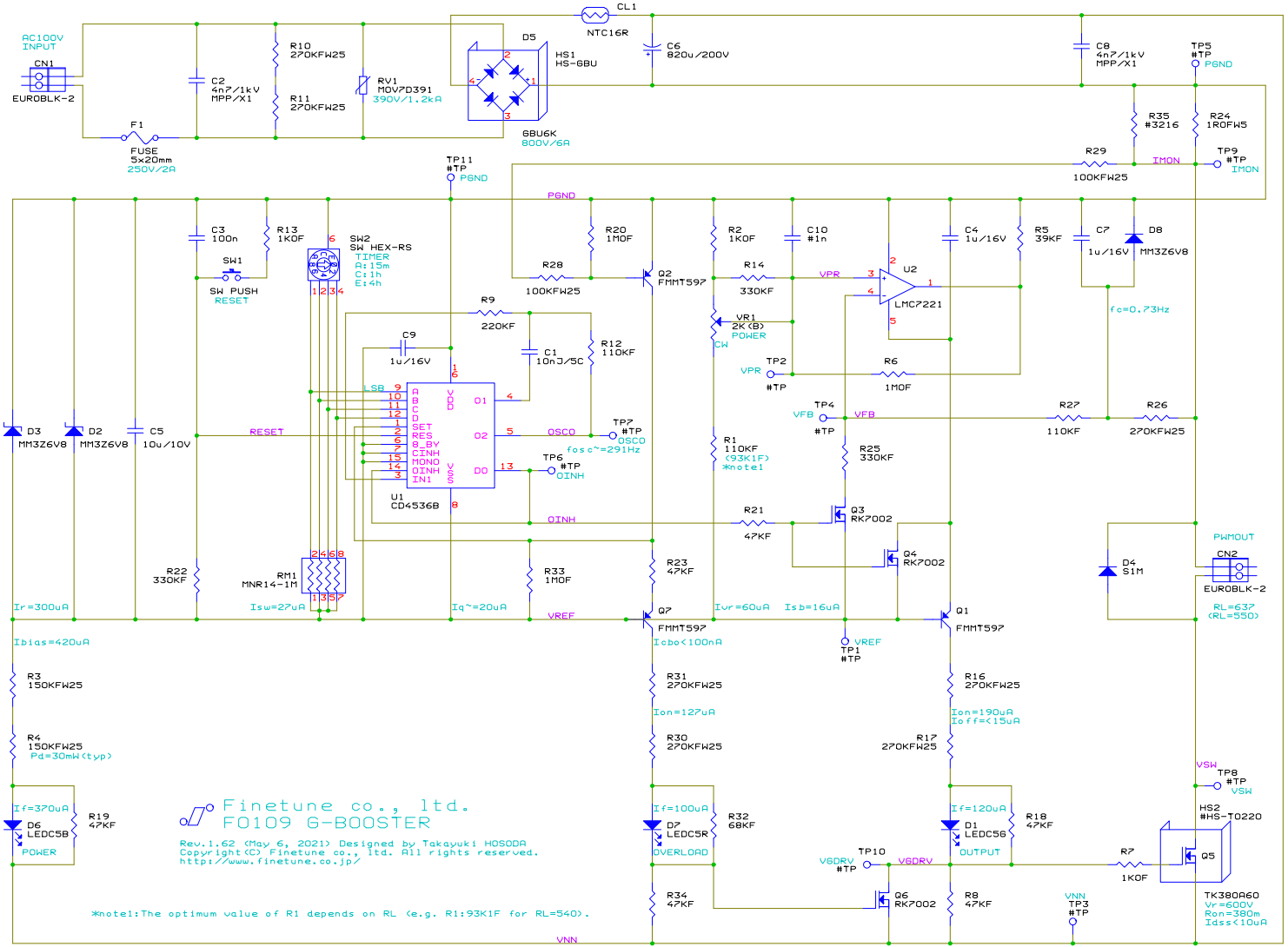
AC100V INPUT
CN1
EUROBLK-2
F1
FUSE 5x20mm 250V/2A
C2 4n7/1kV MPP/X1
R10 270KFW25
R11 270KFW25
RV1 MOV7D391 390V/1.2kA
D5
HS1 HS-6BU
GBU6K 800V/6A
CL1
NTC16R
C6 820u/200V
C8 4n7/1kV MPP/X1
TP5 #TP PGND
R35 #3216
R24 1ROFW5
R29 100KFW25
IMON
TP9 #TP IMON
TP11 #TP PGND
PGND
C3 100n
R13 1KOF
SW1
SW PUSH RESET
SW2 SW HEX-RS
TIMER A:15m C:1h E:4h
R20 1MOF
R28 100KFW25
Q2 FMMT597
R2 1KOF
C10 #1n
R14 330KF
VPR
U2 LMC7221
C4 1u/16V
R5 39KF
C7 1u/16V
D8 MM3Z6V8
fc=0.73Hz
R9 220KF
C9 1u/16V
C1 10nJ/5C
R12 110KF
VR1 2K(B) POWER
CW
TP2 #TP VPR
R6 1MOF
TP4 #TP VFB
R27 110KF
R26 270KFW25
D3 MM3Z6V8
D2 MM3Z6V8
C5 10u/10V
RESET
LSB
A B C D SET RES B_BV CINH MONO OINH IN1
VCC VSS
O1 O2 O0
U1 CD4536B
OSCO
TP7 #TP OSCO
fosc~=291Hz
TP6 #TP OINH
R1 110KF (93K1F) *note1
R25 330KF
OINH
R21 47KF
Q3 RK7002
Q4 RK7002
D4 S1M
PWMOUT
CN2
EUROBLK-2
RL=63Ω (RL=50Ω)
R22 330KF
RM1 MNR14-1M
Isw=27uA
R33 1MOF
Iq~=20uA
VREF
R23 47KF
Ivr=60uA
Isb=16uA
Q7 FMMT597
Icbo<100nA
TP1 #TP VREF
Q1 FMMT597
Ir=300uA
Ibias=420uA
R3 150KFW25
R4 150KFW25
Pd=30mW(typ)
R31 270KFW25
Ion=127uA
R30 270KFW25
R16 270KFW25
Ion=190uA
Ioff=<15uA
R17 270KFW25
VSW
TP8 #TP VSW
If=370uA
D6 LEDC5B POWER
R19 47KF
If=100uA
D7 LEDC5R OVERLOAD
R32 68KF
If=120uA
D1 LEDC5G OUTPUT
R18 47KF
HS2 #HS-TO220
TP10 #TP VGDRV
R7 1KOF
Q5
TK380A60 Vr=600V Ron=380m Idss<10uA
R34 47KF
Q6 RK7002
R8 47KF
VNN TP3 #TP
Finetune co., ltd.
F0109 G-BOOSTER
Rev.1.62 (May 6, 2021) Designed by Takayuki HOSODA
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*note1:The optimum value of R1 depends on RL (e.g. R1:93K1F for RL=54Ω).
VNN